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WISCONSIN STATE DEPARTMENT OF AGRICULTURE

BULLETIN NO. 41



Issued by the
Wisconsin State Department
of Agriculture

C. P. NORGORD, Commissioner



Madison, Wis.

SENT ON APPLICATION

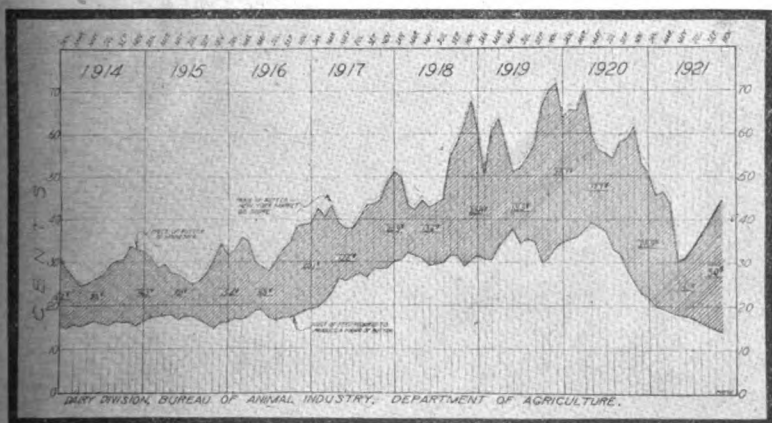
Nov. 1921

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PREPARED BY THE

FEED INSPECTION DIVISION

W. H. STROWD,
CHEMIST IN CHARGE



FEED BUYING PAYS AT PRESENT PRICES.

The shaded area shows the difference between butter prices and feed costs since 1914.

MAY 19 '36

FEED INSPECTION FOR 1920-21

W. H. STROWD, GRACE BITTERMAN, D. R. MIHILLS

"Does feed inspection help me?" asks the farmer. The answer is "Yes, the feed inspection helps every farmer to some extent but how much it helps depends to a large degree on the farmer himself." The aim of the feed inspection department is an honest label for every sack but if the farmer looks at the price without looking at the label he may get poor value in spite of feed inspection. "One man can lead a horse to water but ten men cannot make him drink," says an old adage. In like manner, the feed law can compel a manufacturer to label his products correctly but it cannot compel the farmer to read the label, and if a farmer buys feed merely because it is cheap without considering quality he has only himself to blame for the consequences. A farmer who buys a low priced feed without regard to analysis and the purpose for which it is intended is showing the same poor judgment as the man who put green glasses on his cow and tried to make her eat excelsior as a substitute for grass.

But the farmer who understands the fundamental principles underlying successful stock and dairy feeding can utilize to tremendous advantage the information offered by the feed law. The feed bill of the Wisconsin farmer is no small part of his total operating expenses and anything which will help him cut down this bill should be given careful consideration. For instance a farmer may go into a feed store and ask the price of cottonseed meal. The dealer tells him he has two kinds—one selling for \$35.00 and the other \$30.00 per ton. The farmer who considers only the price buys the \$30.00 feed. What he really gets may be a mixture of equal parts of the \$35.00 feed and cotton seed hulls. Granted that the farmer needs roughage, cottonseed hulls are worth, compared with other roughage, less than \$5.00 per ton. Therefore while the farmer thought he saved \$10.00 per ton by buying the low priced feed he actually lost \$12.50 per ton by buying the low priced feed. In other words if he had bought 1000 pounds of the \$35.00 cotton seed meal and 1000 pounds of a better roughage at \$5.00 per ton he would have had a ton of feed for \$17.50 which was better than the \$30.00 feed which he bought.

These figures represent an actual and not exceptional case found several years ago when prices were nearly the same as today. The farmer who takes the trouble to read the label and who understands good feeding would have seen the difference at once by the fact that the \$35.00 product contained 41 per cent protein while the other contained 24 per cent protein and the low grade sample contained much the greater per cent of fibre.

The increase in quality of feed found on the market is extremely gratifying. This is due in large measure to an increasing discrimination by buyers. A dealer in conversation with the writer a few days ago stated that a few years ago a man who asked about the analysis of a feed was regarded as a freak. "To-day they all want to know how much protein is in the feed," he added. The increased interest in feed inspection is also shown by the increasing number of inquiries from farmers regarding the quality and composition of various brands.

The feed inspection law honestly and impartially enforced is meeting with the hearty approval and support of practically all manufacturers and dealers. The law protects the farmer against fraud, the seller of legitimate feeds against dishonest competition and forces the unscrupulous manufacturer off the market by compelling sale of all feeds strictly on their merits.

The following are some concentrate mixtures which fed in conjunction with hay and silage are recommended by the University of Wisconsin College of Agriculture.

(1)		(4)	
	Pounds		Pounds
Corn and cob-meal.....	100	Ground oats	200
Ground oats	200	Corn meal	200
Wheat bran	100	Gluten feed	200
Oil meal	100	Wheat bran	200
Gluten feed or dried brewer's grains	100	Oil meal	100
Total.....	600	Total.....	1,000
(2)		(5)	
	Pounds		Pounds
Ground oats	100	Ground oats	200
Corn meal or barley meal.....	100	Wheat bran	100
Wheat bran	100	Oil meal	50
Cottonseed meal	25	Total.....	350
Oil meal	25		
Total.....	350		
(3)		(6)	
	Pounds		Pounds
Wheat bran	200	Ground oats	200
Ground barley	400	Ground barley	200
Gluten feed	100	Wheat bran	200
Oil meal	100	Oil meal	100
Total.....	800	Total.....	700

It is noted that each of these rations contain one or more feeds

not produced on the farm. The efficiency of these mixtures depends upon the quality of the feeds composing them. If for example, oil meal containing 30 per cent screenings is substituted for pure oil meal the results will be less satisfactory. In like manner, 43 per cent cottonseed meal is more efficient both in digestible protein and total digestible nutrients than meal containing 36 per cent protein. The farmer must know the composition of feeds and buy by analysis to get results. The large compound feed manufacturers state that unless they bought feed (for mixing), on analysis they would soon go out of business. Can the farmer afford to do otherwise?

The average composition of the important unmixed feeds found in Wisconsin is given in Table 1. These analyses are compiled from results obtained in Feed Inspection Laboratory and are brought up to date so as to be representative of the feeds found on Wisconsin markets today.

TABLE I—AVERAGE ANALYSIS OF FEEDS

	Protein	Fat	Fiber	Carbo- hydrates
Cottonseed meal	38.37	6.94	12.18	38.5
Oil meal	33.23	6.43	9.29	44.1
Gluten feeds	24.34	3.17	7.92	60.0
Hominy feeds	10.88	6.66	4.89	70.7
Corn feed meal	10.90	5.15	5.04	71.0
Bran	14.51	4.73	10.69	63.2
Bran and screenings	14.64	4.74	10.68	63.2
Middlings	16.27	5.15	6.45	62.2
Middlings and screenings	16.26	5.13	7.23	62.0
Red dog	15.24	3.86	2.96	65.5
Mixed mill feed	15.32	4.49	4.97	64.4
Oat feed	7.24	2.54	24.63	76.9
Rye feeds	15.30	3.31	5.77	66.0
Buckwheat feeds	10.75	3.02	31.21	73.4
Corn and oat feeds	10.10	4.36	5.86	72.1
Dried brewer's grains	20.53	6.15	17.2	60.3
Alfalfa meal	14.76	1.77	30.15	65.9
Meat scraps	59.28	9.10		
Digester tankage	59.56	8.83		

The explanation of the terms used in the chemical analyses of feeds is given:

Water (moisture) is present to some extent in the dryest feeds. Succulent feeds run as high as 90 per cent in moisture. Not only is moisture practically a filler in concentrated feeds but a large amount of moisture affects their keeping qualities. Beginning with this issue the moisture content of feeds is reported. With the estimated carbohydrate content this gives a very complete knowledge of the character of the feed.

Crude Protein is the term employed to designate all the compounds of plants containing nitrogen. Every ration must contain a certain amount of protein for it is required in the building of bone, muscle and all other body tissues. It is also an important part of milk and eggs.

Crude Fat includes all the substances which dissolve in dry ether. In a feed it consists principally of oils and fats, but may also contain small amounts of other substances, such as waxes and the green coloring matter of plants.

Ash is a mineral portion of the feed. All animals require some mineral matter such as lime and phosphates. Dairy cows and growing animals require a relatively large amount of mineral matter.

Crude Fiber is the woody material in a feed. Its chief function in a ration is to supply bulk. Under ordinary conditions the bulky portion of a ration should largely be obtained from home grown roughage.

Nitrogen Free Extract includes all the rest of the dry matter of a feeding stuff after the ash, crude protein, crude fat, crude fiber and water have been removed. It embraces all sugars and starches.

Carbohydrates are the sum of the nitrogen free extract and the fiber. The amount of carbohydrates has been estimated in the feeds analyzed, and the approximate percentages are given in the table. Since carbohydrates include the fiber or woody indigestible part of the feed, a high carbohydrate content accompanied by a high fiber content indicates a low grade feed. On the other hand a feed high in carbohydrates and low in fiber indicates a high grade feed usually rich in starch.

A summary of the essential features of the Feed Law follows:

Several important changes were made in the Wisconsin Feed Law by the last legislature. These consist of:

- (1) There is a change in the method of paying fees.
- (2) The Commissioner of Agriculture is empowered to issue rules and regulations to carry into effect the full intent and meaning of the law.
- (3) There is a change in the penalties.
- (4) Mixtures of ground grain when sold locally to consumers are subject to the provisions of the law.

License Fees

Under the amended law license fees may be paid under either one of two systems. The manufacturer may take his choice. He is *not* required to pay under both systems, and when the fee has been paid by the manufacturer no additional fee is required of the jobber or dealer.

SYSTEM 1.

(A) For Flour Mills:

With a (24 hour) daily capacity of:

- | | |
|--|------------------|
| (a) Not over 200 barrels of flour..... | \$5.00 per brand |
| (b) Over 200 and not over 600 barrels of flour.. | 10.00 per brand |
| (c) Over 600 and not over 2,000 barrels of flour | 15.00 per brand |
| (d) Over 2,000 barrels of flour..... | 20.00 per brand |

(B) For Manufacturers of All Feeds *Other Than*

Flour Mill Offal

For plants having a (24 hour) daily capacity of:

- | | |
|--|------------------|
| (a) Fifty tons of feed or less..... | \$5.00 per brand |
| (b) Over 50 tons of feed but not over 100 tons.. | 10.00 per brand |
| (c) Over 100 tons of feed but not over 200 tons | 15.00 per brand |
| (d) Over 200 tons of feed..... | 20.00 per brand |

(C) For Jobbers of Any and All Feeds *Not Licensed* *by the Manufacturer*

\$15.00 per brand

SYSTEM 2.

For all sellers of feed not previously licensed and not complying with System 1.

On or before January 20th of each year file under oath statement showing the number of net tons of 2000 pounds sold during the preceding calendar year. Also supply the Commissioner of Agriculture with a permit to examine the books and records to confirm statement in case the commissioner deems such examination is necessary.

Accompany statement with license fee of 5 cents for each ton or fraction thereof of feed sold during the previous year. This fee, if accepted, permits the *sale of feed for the calendar year following the period covered by the report.*

No fee shall be *less than \$10.00* per calendar year under this system.

Notes and explanations—

System 1 and System 2 cannot both be used by any firm during the same year.

For instance, a manufacturer might find it advantageous to license some of his feeds under system 1 and others under system 2. This is *not* permitted under the law. He must select one system and abide by it throughout the year.

Any statement submitted by manufacturers is subject to investigation and should any statement be proven false, the license of such firm will be revoked.

How to Comply with the Law.

Write to Feed Inspection Division, Agricultural Chemistry Building, Madison, Wisconsin, for blanks.

Fill out blanks in accordance with System 1 or System 2, and also submit applications for registration of feeds giving the name or trade-mark under which each feed is sold, with the analysis for protein, fat and fiber, and the name of each ingredient used in its manufacture.

If satisfactory, license certificate will be mailed.

Each sack or other container of feed sold must contain the following information:

- (a) The name or trade mark under which the feed is sold.
- (b) The name and address of manufacturer.
- (c) Minimum percentages of protein and fat and maximum percentage of fiber.
- (d) Net weight of feed.

If sold in bulk copy of the above information must be supplied the purchaser.

Licenses are issued for the calendar year only.

No reductions are made for fractions of a year.

It is unlawful to sell feed containing weed seeds unless the germ or life has been destroyed.

Exemptions

Millers and malsters who sell *unadulterated* flour and malt offal of their own manufacture locally to the retail trade are exempt from the provisions of the law. However, they are liable under the law when they sell inferior or adulterated feed.

Penalties

Manufacturers who shall sell, offer or expose for sale or distribution in this state, any concentrated feeding stuff, without complying with the above requirements, are subject to a fine of not more than one hundred dollars for the first offense nor less than one hundred dollars for each subsequent offense.

The law also makes it illegal to adulterate any feeding stuff with milling or manufacturing offal, such as grinding oat hulls or corn cobs in the corn and oat feed; or, screenings in mill feeds. Any such mixing must be plainly stated on the label. The sale of feeding stuff adulterated with materials which lower its value, without stating the fact plainly and conspicuously on the label renders the manufacturer or seller liable to a fine of not less than five hundred dollars nor more than one thousand dollars for each offense, or to imprisonment of not more than six months in the county jail, or to both such fine and imprisonment.

PENALTIES FOR FALSE ADVERTISING

Section 1747k of the statutes forbids fraudulent advertising of any form of merchandise which it includes. Sellers of feeds who advertise their feeds under false claims will be prosecuted under this act. This law carries a penalty of from \$10 to \$200 or imprisonment from 10 to 90 days or both fine and imprisonment.

Dealers should not purchase feeds from manufacturers who have not complied with the law, and they should specify on all orders that the manufacturers comply with the State and Federal Laws in every respect.

These changes in the law become effective on the feed licenses for 1922.

The text of the law is found in Section 1494—11 to 18 inclusive, of the Wisconsin statutes, law of 1921.

The analyses of feeding stuffs made in accordance with the provisions of the Wisconsin Feeding Stuff Law during the period between September, 1920, and September, 1921, are given in this bulletin.

During the period noted a total of 620 analyses were made.

AS FOUND ON THE MARKETS

Brief comments covering the important points about feeds found on the market should assist in guiding farmers in making intelligent purchases.

Cottonseed meal (analysis on page 14) varies in quality perhaps as much as any other feed. Fortunately the increasing discrimination of buyers is forcing the lower grades off the market and the improvement in quality in recent years is quite marked.

Whereas cottonseed feed containing less than 36 per cent used to be most common, only one sample containing less than 36 per cent was found last year. As a rule the high protein meal is most economical. It is not only higher in protein but is lower in fiber and therefore contains more total digestible nutrients than 36 per cent meal. Buy 43 per cent meal!

Oilmeal (analysis on page 14) or linseed meal or cake like cottonseed meal is high in protein and is widely used in the rations of dairy cows, calves and pigs. Not only is oil meal valuable for its high protein but for its laxative and other properties as well. Henry and Morrison in "Feeds and Feeding" say: "There is no healthier feed for limited use for all animals than oilmeal. Its judicious use is more apparent in the pliable skin, the sleek oily coat and the good handling quality of the flesh of the animals receiving it. It is most useful as a conditioner for run down animals receiving it." Since not only the protein but the conditioning effect of oil meal makes it valuable, the purity is fully as important as the protein content. A pure oil meal containing 30 per cent protein is probably much more valuable than a 30 per cent protein oil meal containing screenings or their residues.

Gluten feed (analysis on page 15) is another high protein feed of good quality and is likewise a good feed for dairy cows. Its price usually renders it a very desirable feed to buy since from the standpoint of total digestible nutrients it often sells at the lowest price per pound of any high protein feed on the market. The variation in color sometimes causes prejudice against this feed which is entirely unwarranted.

Distillers' Grains, Brewers' and Vinegar Grains (analysis on page 25). Distillers' grains and brewers' grains are still found on the market as by-products in the manufacture of industrial alcohol and non-alcoholic beverages. Both, when pure, are nutritious feeds and give good results. There has been a lack of uniformity of late years in these products and it is especially important to buy these feeds on the basis of the analysis. Vinegar grains or yeast grains are quite similar in appearance to brewers' grains but are lower in protein and higher in fiber, and are therefore less valuable. In recent months, however, the former have been offered at a very attractive price.

Hominy feed and corn feed meal (analysis on page 15) are high in starch and make good substitutes for the cereal grains.

The desirability of purchasing these feeds depends largely upon their prices as compared with that of ground corn and other cereals. A good grade of hominy feed or corn feed meal should contain over 10 per cent protein. Buyers should specify that these feeds should carry a guarantee of at least 10 per cent. Corn feed meal is sometimes sold under the name of *corn bran*. True corn bran, which is lower in value than corn feed meal is seldom found.

Wheat Feeds. *Wheat bran* (analysis on page 16) is the most widely used purchased feed. On account of its coarse flaky condition, adulteration of bran can be easily detected with the naked eye. It is both nutritious and bulky and therefore has the unique property of lightening heavy feeds while improving the nutritive qualities of the ration. At the time this is written (October 1st, 1921), bran is offered at a very attractive price, although on account of its popularity its price is often out of proportion to its feeding value in normal times. A question often asked is the relative value of pure bran and bran containing screenings. A good coarse bran and screenings usually contains little screenings for the reason that little of the screenings after grinding is of a proper size for mixing. Also the composition of bran and screenings is usually practically the same. Therefore, when a mill puts out a good flaky bran containing no fine particles or unground seeds, there is practically no difference so far as the experience of this laboratory goes between pure bran and "standard" bran.

With *middlings* (analysis on page 19) the case is quite different. Here we have a fine ground product composed of different kinds of material (fine bran, germ, aleurone, low grade flour). Therefore, the finely ground screenings can easily be worked into this product. As a matter of fact several mills get a premium on bran and flour middlings by running the entire mill run of screenings into standard middlings. The presence of screenings in middlings is therefore likely to lower both its digestibility and palatability to a marked degree and a pure middlings is preferable even at considerable premium. In the absence of standards for middlings there is a considerable fraud in the substitution of ground bran for standard middlings, standard middlings for flour middlings, and flour middlings for red dog, and red dog for low grade whenever market prices justify it.

It is hoped that this will be remedied shortly by the adoption

of standards which will be put into force at the beginning of the next year. These will be established under the authority conferred upon the commissioner by the last legislature. The standards to be adopted will be decided upon after consideration by the Washington meeting this fall. In the meantime it is suggested that buyers purchase the respective wheat feeds which are shown in the table of analysis to have the lowest fiber contents.

Oat feeds (analysis on page 23). The best known oat by-products feed is the one known as *oat feed*. This is an offal from the manufacture of oat meal and consists largely of oat hulls although it contains small amounts of the more nutritious oat shorts. This product has about the same analysis as non-legume hay and in view of the present large hay shortage, considerable quantities of this feed may be used legitimately by Wisconsin farmers. However, the implication by certain shippers that the feed is a substitute for grain or a dairy feed in the sense of a balanced ration is absolutely false and this department will continue to fight such mis-statements by prosecution and all other facilities at its command.

Buckwheat feeds (analysis on page 24) vary greatly in quality depending upon the proportions of middlings and hulls that they contain. The middlings is a very high grade product containing 30 per cent protein and only 6 per cent fiber while the hulls or bran is a low grade filler containing around 4 per cent protein and 45 per cent fiber and having a lower digestibility than wheat straw. Therefore the analysis of buckwheat feeds is highly important.

Rye feed or *rye middlings* is similar in composition to wheat flour middlings and makes a good substitute for the latter. Few manufacturers use screenings in rye feed since the pieces of ergot which cannot be separated render it dangerous for feeding. In most cases screenings are sold to drug houses which separate the ergot for medicinal purposes.

Ground feed or *corn and oat feed* (analysis on page 25) is the pure oats and pure corn ground together. It must not be confused with a mixture of corn feed meal and oat feed meal since the latter mixture has much less value. Ground feed is sometimes adulterated with oat feed. The fiber content is a good criterion of its value. Ground feed containing not more than half oats should usually run 7 per cent or less in crude fiber.

Packing house by-products (analysis on page 26). The chief packing house by-product used in Wisconsin is tankage. The protein content offers a good standard of its value. The product containing 60 per cent is usually the most economical. Bone and stomachic contents are adulterants of this product.

Proprietary Feeds. The proprietary or compounded feeds vary so much in quality and price that it is impossible to make any specific statement for or against them. This department insists merely that these feeds be sold for what they are, and allows the farmer to decide for himself whether or not market and other conditions justify their use. Farmers buying mixed feeds are urged to make careful comparisons with standard by-products both as to analysis, price, and production since the varying conditions make official experimental work on such feeds of doubtful lasting value. The list of ingredients, and moisture, protein and fiber percentages all offer valuable insight into the character of these feeds.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921.

Lab. No.	Name of Brand	Manufacturer or Agent	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo-hydrates		
					Guar.		Found		Guar.			Found	
OIL MEALS													
96	O. P. Linseed meal.....	American Linseed Co., Minneapolis	Farmers Gr & Merc. Assn., Hixton	8.20	34.0	35.72	6.0	7.22	9.0	9.11	43		
291	Amco. O. P. Linseed Meal and Screenings Oil Feed.....	American Milling Co., Peoria, Ill.	F. H. Green & Sons, Janesville....	8.91	30.0	33.20	5.0	6.14	10.0	7.98	47		
372	Amco. O. P. Linseed Meal and Screenings Oil Feed.....	American Milling Co., Peoria, Ill.	Farmers' Warehouse Co., Deerfield Average	8.30	30.0	32.64	5.0	6.02	10.0	7.52	48		
164	Ground Oil Cake ¹	Archer-Daniels Linseed Co., Mpls.	Hoffman Feed Co., Madison.....	8.61	32.0	32.92	6.0	5.81	10.0	7.75	47		
917	O. P. Oil Meal.....	Archer-Daniels Linseed Co., Mpls.	Krummen Bros., Cedar Grove.....	9.36	32.0	32.90	6.0	7.35	10.0	8.16	46		
397	Pure O. P. Linseed Oil Meal.....	Deutsch & Sickert Co., Milwaukee		7.75	34.0	35.62	5.0	6.87	10.0	8.10	44		
35	Argentine Brand O. P. Grd. Linseed Cake ²	Wm. O. Goodrich Co., Milwaukee	Schultz Bros., Sheboygan.....	9.00	31.0	31.25	5.0	5.56	10.0	7.59	49		
277	O. P. Linseed Cake Meal.....	Hirst & Begley Lin. Co., Chicago	Alex Sinaiko, Madison.....	7.97	31.0	29.94	6.0	7.79	9.0	8.52	48		
126	O. P. Ground Linseed Cake.....	Midland Linseed Prod. Co., Mpls.	C. V. Webb, Oak Center.....	10.33	32.0	32.64	5.0	6.58	9.5	6.99	47		
180	O. P. Ground Linseed Cake.....	Midland Linseed Prod. Co., Mpls.	Farmers Warehouse Co., Edgerton	10.17	32.0	32.51	5.0	6.63	9.5	6.42	46		
262	O. P. Ground Linseed Cake.....	Mid. Linseed P. Co., Minneapolis	St. Makowski, Milwaukee.....	8.51	30.0	34.85	5.0	5.74	9.5	7.59	46		
979	O. P. Oil Meal.....	Mid. Linseed P. Co., Minneapolis	C. S. Morris, Berlin.....	9.66	32.0	33.51	5.0	7.04	9.0	8.16	45		
204	O. P. Ground Linseed Cake.....	Minn. Linseed O. Co., Minneapolis	David Jones, Randolph.....	8.12	34.0	36.19	5.0	7.10	11.0	7.77	43		
346	Pure O. P. Grd. Linseed Cake.....	Northern Linseed Oil Co., Mpls.	Cedar Grove Coop. Ex., O. Grove	8.63	33.0	36.75	5.0	5.60	9.0	7.53	45		
128	Ground Oil Cake.....	R. W. L. O. Co., Red Wing, Minn.	Price Bros., Rio.....	10.47	31.0	33.46	6.0	6.77	10.0	8.37	44		
149	Pure O. P. Oil Meal.....	Spencer Kellogg & Sons, Mpls....	T. H. Cochran Co., Fall River....	9.58	33.0	34.13	5.0	4.89	10.0	8.88	46		
COTTON SEED MEAL AND FEED													
222	Surety Cotton Seed Meal.....	Amer. O. Oil Co., Memphis, Tenn.	D. P. Wigley Co., Racine.....	7.59	36.0	44.26	5.5	6.78	14.0	12.35	33		
335	Amco. Cotton Seed Meal.....	American Mig. Co., Peoria, Ill.	Oostburg Lbr. & Grain Co., Oostburg	7.76	43.0	40.53	6.5	7.50	11.0	9.04	38		
295	Farmers' Brand Choice Cotton Seed Meal.....	J. E. Bartlett, Jackson, Mich....	Armour Grain Co., Walworth....	8.03	43.0	42.76	7.0	7.28	10.0	9.63	35		
406	Ordinary Cotton Seed Meal.....	Con. Cot. O. Co., Colorado, Tex.	Armour Grain Co., Oconomowoc...	11.07	43.0	45.90	6.0	9.27	12.0	6.36	28		
264	Bested Prime Cottonseed Meal and Cake ³	D. Peanut Fd. Mfrs. Dallas, Tex.	St. Makowski, Milwaukee.....	7.51	41.0	43.23	5.0	7.94	11.0	7.97	36		
392	Beauty Cotton Seed Meal.....	S. P. Davis, Little Rock, Ark.....	J. H. Timm Co., Plymouth.....	9.30	36.0	29.78	6.0	5.13	14.0	18.18	49		
151	Circle Brand Cotton Seed Meal and Cake.....	Drew Head & Co., Dallas, Tex....	Farmers' Warehouse Co., Edgerton	6.93	41.0	40.55	5.0	6.98	14.0	10.57	39		

3821	Durco Cotton Seed Meal	Durant O. O. Co., Durant, Okla.	Greenwood Roller Mills, Greenwood	0.27	43.0	33.88	5.0	7.70	10.0	12.88	80
105	Cotton Seed Meal	Globe Milling Co., California	Martin Calif Meal Co., Mineral Pt.	7.63	38.0	39.52	5.0	7.79	10.0	10.36	86
59	Texas Brand Cotton Seed Meal										
108	Ark. Brand Cotton Seed Meal	J. H. Halley Co., Houston, Tex.	Reedsburg Supply Co., Reedsburg	5.91	42.0	40.09	5.0	7.29	12.0	13.78	88
906	Ark. Cotton Seed Meal	Hayes G. & O. Co., Little R., Ark.	Equity Warehouse Co., Barneveld	7.46	36.0	39.22	5.0	6.53	14.0	11.61	89
438	Rabbitfoot Cotton Seed Meal	Hayes G. & O. Co., Little R., Ark.	Helmer Mig. Co., Fond du Lac	7.38	36.0	37.95	5.0	7.96	14.0	12.44	41
155	Danish Brd. Cotton Seed Meal	Head & Co., Dallas, Tex.	Average	7.42				7.25		12.08	
157	Forfat Cotton Seed Meal	Humphreys-Godwin, Memphis, T.	Cooperative Assn., Random Lake	5.93	42.0	42.20	5.0	7.86	12.0	8.05	87
179	Cotton Seed Meal	Humphreys-Godwin, Memphis, T.	I. W. York, Portage	6.71	36.0	35.62	5.0	7.62	15.0	8.05	45
404	Cotton Seed Meal or Oats	In. Cot. Oil Prop., Houston, Tex.	Frank B. Hoag, Waukesha	7.12	38.06	39.40	5.0	6.64	12.0	9.05	49
235	Ordinary Cotton Seed Meal	Lamar Cotton Oil Co., Paris, Tex.	Farmers Coop. Ex., Ft. Atkinson	8.95	43.0	42.60	5.0	7.40	13.0	5.96	85
237	Samsom Cotton Seed Meal	Marshall O. O. Co., Marshall, Tex.	Belpluier Roller Mill, Nekosha	8.93	43.0	42.62	5.0	7.72	14.0	7.08	86
239	Cotton Seed Meal	J. M. Samsom & Co., Dallas, Tex.	Geo. Olley, Roche	7.72	43.0	43.23	5.0	7.51	12.0	7.17	88
252	Cotton Seed Meal	Stocum Oats & F. O. K. O. Co., Mo.	Farmers' Coop. Elev., Union Grove	6.72	36.0	38.76	5.0	9.30	22.0	9.47	88
154	Cotton Seed Meal	Texasakana Cotton Oil & Fert. Co., Texasakana, Tex.	I. W. York, Portage	7.69	43.0	42.66	5.0	8.79	14.0	6.51	84
75			Imperial Cotton Sales Co., Chicago	7.87	43.0	43.84	6.0	7.35	12.0	5.45	84
HOMINY FEED											
970	Hominy Feed	Akron Milling Co., Sioux City, Ia.	E. Elkon, Rhinelander	11.45	11.0	8.22	7.0	4.84	4.0	4.26	73
261	Hominy Feed	Cereal Mills Co., Wausau	St. Makowaki, Milwaukee	11.76	10.0	9.76	7.0	7.30	4.0	4.00	68
427	Badger Hominy Feed	O. A. Krause Mig. Co., Milwaukee	H. Froehlich, Glenbeulah	11.00	10.0	10.13	5.00	6.22	5.0	3.69	71
256	True Value Hominy Feed	Ledish Milling Co., Milwaukee	Frank B. Hoag, Waukesha	10.86	9.5	9.69	4.0	5.45	5.0	3.60	70
112	Yellow Hominy Feed	Mystic Milling Co., Sioux City, Ia.	Oakfield Elev. Co., Oakfield	8.29	8.5	10.19	4.0	6.83	5.0	3.60	73
900	Yellow Hominy Feed	Mystic Mig. Co., Cedar Rapids, Ia.	Sage Field Lbr. Co., Delavan	10.63	8.0	10.43	4.5	6.86	5.0	3.92	69
241	Yellow Hominy Feed	Quaker Oats Co., Chicago	Helmer Mig. Co., Fond du Lac	10.98	10.5	11.57	6.0	6.05	5.0	4.59	68
194	Hominy Feed	Sparr Cereal Co., Marshfield	Manufacturer	9.97	10.0	9.68	8.0	6.90	9.0	3.14	72
325	Hominy Feed	Sparr Cereal Co., Marshfield	Manufacturer	8.94	10.0	9.63	8.0	7.91	9.0	3.75	71
GLUTEN FEEDS											
284	Clinton Corn Gluten Feed	Clinton O. S. E. Co., Clinton, Ia.	Armour Grain Co., Walworth	10.02	23.0	25.55	2.0	2.28	8.0	6.22	60
136	Buffalo Gluten Feed	Corn Prod. R. Co., New York City	Guy V. Dering, Columbus	9.83	23.0	23.42	1.0	2.16	8.5	6.19	67
412	Douglas Corn Gluten Feed	Penick & Ford, Chicago	Wau. Gn. & Prod. Co., Waukesha	6.24	25.0	24.98	1.0	3.25	8.0	8.43	63
CORN OIL MEAL											
486	Douglas Corn Oil Meal	Penick & Ford, Chicago	Kiel Merc. Assn., Kiel	4.73	13.0	17.69	8.0	13.77	10.5	11.05	63

*Jobber: Bower City Feed Co., Janesville.
 *Jobber: Franke Grain Co., Milwaukee.
 *Jobber: Pillsbury Flour Mills Co., Minneapolis.
 *Jobber: Case Bros., Racine.
 *Jobber: Bower City Feed Co., Janesville.
 *Jobber: T. H. Cochran Co., Portage.
 *Jobber: Franke Grain Co., Milwaukee.
 *Jobber: Chas. A. Krause Mig. Co., Milwaukee.
 *Jobber: Pillsbury Flour Mills Co., Minneapolis.
 *Jobber: Hales & Hunter Co., Chicago.
 *Jobber: Ladish Mig. Co., Milwaukee.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Manufacturer or Agent	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo-hydrates	
					Guar.	Found	Guar.	Found	Guar.	Found		
WHEAT MIXED FEED												
45	Flne Grd. Wheat Mixed Feed	Cap. C. M. & G Co., St. Paul, M.	B. Halverson, Baldwin	8.95	15.75	15.81	4.6	5.49	8.2	6.25	66	
46	Pure Wheat Mixed Feed	Cap. C. M. & G Co., St. Paul, M.	Anderson Bros., Clear Lake	7.82	14.3	12.75	3.7	5.46	10.7	8.71	71	
478	Wheat Mixed Feed	Fennimore Roller Mills, Fennimore	Manufacturer	7.69								
386	Cella Winter Wheat Mixed Feed	Ismer-Hincke M. Co., K. O. Mo.	Gilbert & Olson, Darlington	8.67	16.0	17.25	3.5	3.92	10.0	8.05	66	
359	Buckeye Wheat Mixed Feed	Quaker Oats Co., Chicago	Lawson Bros., Ripon	8.90	15.5	15.16	4.5	5.05	11.0	10.08	66	
35	Occident Wheat Feed	Russell-Miller Mfg. Co., Minneapolis	Schultz Bros., Sheboygan	10.30	15.0	16.69	4.0	5.63	11.0	7.63	62	
211	Occident Wheat Feed	Russell-Miller Mfg. Co., Minneapolis	Boes & Weissmiller, Oakkosh	8.01	15.0	19.63	4.5	5.16	10.0	11.00	62	
			Average			18.16		5.32		9.32	62	
WHEAT BRAN												
200	Atlas Wheat Bran	Atlas Flour Mills, Milwaukee	John Marx, Kewaunee	10.88	14.0	17.49	3.0	4.25	12.0	10.38	61	
389	Brant	Barber Milling Co., Minneapolis	Manufacturer	7.84		15.42		5.12		10.28	66	
352	Coarse Wheat	Bay State M. Co., Winona, Minn.	Chas. S. Morris, Berlin	9.32	13.5	15.27	3.8	5.25	13.1	11.00	64	
954	Coarse Wheat Bran	Bay State M. Co., Winona, Minn.	Marquette Fl. Mfg. Co., Marinette	11.04	14.3	12.82	3.7	4.24	14.0	11.32	66	
68	Pure Wheat Bran	Campbell M. Co., Northfield, Minn.	Munson & Keegan, Richland Center	8.91	13.0	13.94	4.0	4.29	12.0	11.45	65	
413	Pure Wheat Bran	Campbell M. Co., Northfield, Minn.	Leuenkugel & O'Connor, Sauk Cy.	8.33	13.0	15.21	4.0	4.62	12.0	10.52	66	
			Average	8.62		14.53		4.46		10.99		
258	O. D. M. Bran's	Century Milling Co., Arlington, S. D.	Wilbur Lbr. Co., Milwaukee	10.06	15.5	14.50	3.75	4.33	11.25	10.36	65	
62	Jersey Wheat Bran	Cereal Mills Co., Minneapolis	Reedsburg Farmers Co., Reedsburg	7.85	13.0	13.63	4.0	4.33	13.0	12.61	68	
966	Wheat Bran	Chippewa M. Co., Wausau	Dodge-Hooker Mfg. Co., Brimnawood	11.29	14.0	13.81	4.3	3.72	11.0	10.24	69	
12	Monteota (Brant)'s	Chippewa M. Co., Montevideo, Minn.	F. H. Green & Son, Janesville	8.90		13.95		4.28		12.42	67	
432	Wheat Bran'	Chippewa M. Co., Montevideo, Minn.	Farmers' Merc. & Supply Co., Elkhart Lake									
255	Durum Wheat Bran	Commander Mill Co., Minneapolis	O. H. Stretzel, Milwaukee	7.70	13.4	14.63	3.9	5.38	11.9	12.67	68	
919	Brant	Con. M. E. & P. Co., Chippewa Falls	Community Mfg. Co., Neenah	10.38	12.0	15.81	3.5	4.42	14.1	13.07	68	
91	Brant	John P. Dousman M. Co., De Pere	Manufacturer	10.75		14.60		4.39		9.11	64	
90	Brant	John P. Dousman M. Co., De Pere	Manufacturer	8.69		15.32		4.19		11.28	66	
127	Coarse Bran	Eagle R. M. Co., New Ulm, Minn.	Price Bros., Rio	9.70		14.14		4.29		11.75	66	
34	Wheat Bran	Eagle R. M. Co., New Ulm, Minn.	Meicher Lbr. Co., Wautoma	10.94	12.5	13.50	3.8	4.17	15.0	12.22	67	
199	Wheat Bran	Eagle R. M. Co., New Ulm, Minn.	Helmer Mfg. Co., Fond du Lac	8.47	14.0	15.21	3.0	4.54	12.0	10.83	65	
71	Wheat Bran	Empire Milling Co., Minneapolis	Heddes Lbr. Co., Muskego	11.52	14.0	15.27	3.4	4.64	12.0	11.02	63	
298	Wheat Bran	Empire Milling Co., Minneapolis	Chas. A. Keller, Milwaukee	9.73	13.0	13.93	3.5	4.43	13.9	11.60	66	
			Average	10.83	13.0	14.75	3.5	3.90	13.9	11.36	65	

[illegible]

+Containing screenings.

100,000 bushels.
Jobber: Franke La Budde Grain Co., Milwaukee.

Jobber: Bower City Feed Co., Janesville.

“Jobber: Franke La Budde Grain Co., Milwaukee.

Jobber: Franke Grain Co., Milwaukee.

16Jobber: Lincoln Mill, Merril.

17 Jobber: **Deutsch & Sickert Co., Milwaukee.**

Jobber: Bower City Feed Co., Jamesville.

Jobber: Chas. A. Krause Mfg. Co., Milwaukee.

Jobber: O. A. Anderson Co., Palmyra.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Manufacturer or Agent	Dealer or Farmer	Mois- ture	Protein		Fat		Fiber		Carbo- hydrates		
					Guar.		Found		Guar.			Found	
WHEAT BRAN—Continued													
14	Wheat Bran ²¹	N. London M. Co., Wellman, Minn.	A. O. A., Phillips	10.42	14.0	13.15	4.0	4.18	11.0	11.62	66		
378	Omar Pure Wheat Bran	Omaha Flour M. Co., Omaha, Neb.	Neupert Bros., Lake Mills	8.31	14.5	15.94	3.5	4.14	11.0	10.90	66		
118	Wheat Bran	Oriental Mills, Manitowoc	Manufacturer	8.44	14.0	14.49	4.0	4.28	11.0	11.07	66		
432	Wheat Bran	Oriental Mills, Manitowoc	Manufacturer	11.81	14.0	13.31	4.0	4.77	11.0	9.53	64		
497	Wheat Bran	Oriental Mills, Manitowoc	Manufacturer	8.82	13.19	13.19	4.0	4.87	10.77	10.77	67		
53	Pure Wheat Bran	Oscola M. & E. Co., Fairmont, N. D.	Amery Equity Exchange, Amery	7.81	14.3	12.75	4.0	4.34	11.0	13.44	66		
152	Wheat Bran	Pillsbury Flour Mills Co., Mpls.	I. W. York, Portage	10.84	13.0	14.44	4.0	5.06	13.0	11.43	66		
116	Pure Wheat Bran ²²	Redfield Flour Co., Redfield, S. D.	A. C. Doersch, Cleveland	8.58	15.0	13.67	4.0	3.58	10.5	12.27	68		
160	Wheat Bran	Red Star M. Co., Wichita, Kan.	T. H. Cochrane Co., Portage	11.25	15.0	17.53	3.75	3.84	10.5	10.83	62		
221	Bixota Wheat Bran ²³	Red Wing M. Co., Red Wing, Minn.	D. P. Wigley Co., Racine	9.92	13.5	15.0	4.1	4.92	15.6	11.01	64		
223	Wheat Bran	Red Wing M. Co., Red Wing, Minn.	Hoffman Feed Co., Madison	10.63	13.0	13.06	4.0	4.43	15.0	12.30	66		
70	Wheat Bran	Rock Valley M. Co., Rock Valley, Iowa	Sparta Produce Exchange, Sparta	9.17	14.0	14.96	4.0	3.69	12.0	10.97	66		
850	Wheat Bran	Russell-Miller M. Co., Minneapolis	Farm. Coop. lev. Co., Marshfield	8.94	13.0	17.89	4.0	5.53	11.0	10.01	62		
293	Kono Pure Wheat Bran	St. Paul M. Co., St. Paul, Minn.	Armour Grain Co., Walworth	11.33	14.0	15.88	4.0	4.90	12.0	11.71	63		
216	Wheat Bran	H. P. Schmidt M. Co., Oshkosh	Manufacturer	8.27	11.94	12.56	4.0	4.69	11.83	11.83	70		
490	Wheat Bran	Shane Bros. & Wilson, Minneapolis	Anton Brendel, Phillips	9.60	12.63	12.56	4.0	4.24	11.30	11.30	68		
15	Cloverleaf Wheat Bran	Shane Bros. & Wilson, Minneapolis	M. Safford & Co., Berlin	10.20	14.0	14.13	3.5	4.10	12.0	11.03	66		
355	Cloverleaf Wheat Bran	Southwestern M. Co., K. O., Mo.	Farm. Coop. Ex., Ft. Atkinson	8.79	14.0	15.06	3.5	4.37	12.0	12.29	64		
178	Red Turkey Wheat Bran	Springfield M. Co., K. O., Mo.	Farmers' Elevator, Kaukauna	10.91	14.5	16.09	4.0	3.42	11.80	11.21	64		
940	Red Turkey Pure Wheat Bran	Springfield M. Co., Springfield, Minn.	Dalke, Glese & Walker, Wautoma	11.10	14.5	15.27	4.0	2.93	11.8	9.71	65		
83	Wheat Bran	Stokes M. Co., Watertown, S. D.	Johnson & Hill, Wisconsin Rapids	8.93	13.5	16.76	4.0	4.01	11.0	10.43	64		
337	Wheat Bran	Stokes M. Co., Watertown, S. D.	Chas. H. Wegner, Wausau	9.53	14.5	15.75	3.8	4.38	13.0	10.07	64		
981	Wheat Bran	Tennant & Hoyt, Lake City, Minn.	Average	11.75	14.5	15.49	3.8	3.89	13.0	11.55	65		
				10.64	14.5	15.12	4.0	4.14	10.81	10.81	65		
193	Pure Bran ²⁵	Wabasha R. M. Co., Wabasha, Minn.	Mair & Caldwell, Columbus	12.01	14.0	15.06	4.0	3.62	11.0	11.81	63		
326	Big Jo Bran	W. Creek M. Co., Great Bend, Kan.	W. C. Weisel, Wisconsin Rapids	9.39	13.1	14.70	3.1	4.83	18.4	12.31	65		
197	Wheat Bran	Washburn-Crosby Mig. Co., Mpls.	D. M. Numan & Sons, Kilbourn	11.84	14.5	15.44	3.5	3.19	10.0	10.83	64		
107	Wheat Bran	Washburn-Crosby Mig. Co., Mpls.	Chase & Son, Sun Prairie	9.27	13.0	14.85	4.0	5.25	13.0	12.01	65		
972	Wheat Bran	Wisconsin Milling Co., Menomonie	Willy & Co., Rhineland	11.18	14.0	14.63	5.0	3.11	10.9	9.31	66		
144	Pure Wheat Bran	Yerxa, Andrews & Thurston, Mpls.	Waterman-Ehrhard Co., Menomonie	8.21	14.57	13.63	4.68	4.13	10.9	11.69	68		
171	Pure Durum Wheat Bran ²⁶		Kilbourn Equity Ex., Kilbourn	8.82	13.5	13.31	5.5	5.26	12.0	13.48	67		

MIDDINGS										
145	Standard Midds	Atkinson Milling Co., Minneapolis	8.44	14.0	16.60	5.0	5.23	10.0	8.51	69
153	Standard Midds†	Barber Milling Co., Minneapolis	10.01	9.6	15.90	4.4	5.00	11.3	9.69	69
233	Wheat Midds†	Waukegan Gr. & Pro. Co., Waukegan	9.42	9.6	11.44	4.4	5.81	11.8	10.23	69
231	Wheat Std. Midds	Frank B. Hoag, Waukegan	9.45	13.5	14.88	4.4	5.64	12.4	9.52	69
278	Wheat Midds†	Farmers Equity Ex., Dalton	8.85	15.9	16.76	4.0	5.51	7.5	7.33	65
85	Wheat Midds†	A. Gram & Son, La Crosse	9.23	16.0	16.00	5.2	5.27	12.0	5.55	65
64	Pure Wheat Midds	Munson & Kegan, Richland Center	11.73	16.0	16.83	4.5	5.12	12.0	5.79	63
272	Pure Wheat Midds	Senalko Bros., Madison	9.18	16.0	19.75	4.0	5.76	12.0	6.77	63
409	Pure Wheat Midds	Leinenkugel & O'Connors, Sauk Cy	8.62	14.0	15.93	4.0	4.27	8.0	9.59	63
402	Poland Wheat Std. Midds	Wild Rose Pro. Co., Wild Rose	11.50	15.0	15.57	5.0	4.27	8.0	4.72	65
933	Wheat and Rye Midds	Manufacturer	12.03	15.0	12.42	5.0	3.88	8.0	0.62	69
934	Flour Midds	Manufacturer	10.62	13.47	13.98	4.33	3.28	4.60	4.75	69
95	Wheat Flour Midds	Melcher Lbr. Co., Wautoma	10.06	15.0	15.68	5.0	5.14	10.0	8.15	65
33	Wheat Std. Midds†	Jackson & Sons Co., De Pere	10.87	14.0	13.93	4.23	4.23	8.2	4.46	67
319	Flour Midds	Kilbourn Equity Ex., Kilbourn	10.47	16.0	16.81	4.0	5.59	8.0	6.27	63
946	Fine Wheat Midds	H. Froehlich, Glenbeulah	9.90	14.0	16.88	5.0	6.06	8.0	6.60	69
170	Wheat Flour Midds	J. N. Bassett, Lena	10.31	16.5	15.60	4.0	4.98	11.0	8.60	65
433	Wheat Std. Midds†	Breedon & Son, Richland Center	8.97	16.0	17.05	5.0	5.40	8.0	6.88	62
953	Std. Midds†	Heddes Lbr. Co., Muscoda	8.93	15.0	14.90	4.5	4.25	11.9	6.00	64
67	Wheat Flour Midds†	Ayers & Whitcomb, Albany	6.96	15.0	16.50	4.5	6.02	11.9	9.12	69
70	Wheat Std. Midds†	Average	7.96	15.0	15.83	4.5	5.14	11.9	7.96	67
399	Wheat Std. Midds†	Lomira Farmers Union, Lomira	7.62	15.0	19.69	3.0	5.76	10.0	8.53	68
443	E-A-Co. Wheat Midds†	Manufacturer	9.10	15.0	15.81	3.0	5.65	10.0	7.77	65
491	Flour Midds	Manufacturer	7.99	12.04	12.04	2.68	2.68	9.0	3.04	73
471	Wheat Flour Midds	Manufacturer	7.30	12.04	12.04	2.68	2.68	9.0	1.87	73
474	Fine Middings	Jensen & Olson, Kenosha	11.67	15.0	16.50	5.0	4.54	9.0	5.00	67
271	Pure Winter Wheat Shorta	A. L. Williams, Beaver Dam	8.85	15.0	15.73	4.0	4.27	7.0	10.48	67
189	Wheat Std. Midds†	Manufacturer	13.18	16.0	14.33	5.0	4.18	9.0	6.49	64
239	Wheat Flour Midds	Curran Bros., Mauston	11.29	17.2	13.81	2.9	3.49	4.5	4.02	67
165	White Shorts	R. L. Glazier, Baraboo	7.62	16.0	16.39	3.5	4.92	5.5	6.63	67
400	Wheat Shortst	Helmer Mig. Co., Fond du Lac	9.74	15.0	14.93	4.0	5.14	12.0	8.03	69
23	Whitwind Midds	Manufacturer	11.23	16.0	15.37	4.0	4.83	9.0	7.58	65
190	Wheat Flour Midds									

†Contains screenings.

‡Jobber: Sparr Cereal Co., Marshfield.

§Jobber: Donahue Stratton Co., Milwaukee.

¶Jobber: Deutsch & Siefert Co., Milwaukee.

‡Jobber: Donahue-Stratton Co., Milwaukee.

§Jobber: O. A. Anderson Co., Palmyra.

¶Jobber: M. G. Rankin & Co., Milwaukee.

‡Jobber: Bower City Feed Co., Janesville.

§Jobber: Bower City Feed Co., Janesville.

¶Jobber: Alex Sinalko, Madison.

‡Jobber: Sparr Cereal Mills, Wausau.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Manufacturer or Agent	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo-hydrates
					Guar.	Found	Guar.	Found	Guar.	Found	
MIDDLINGS—Continued											
215	Wheat Midds	Gustavus Mig. Co., Oshkosh	Manufacturer	8.83	15.75	5.25	4.59	66			
479	Wheat Midds	Gustavus Mig. Co., Oshkosh	Manufacturer	8.19	14.14	5.10	5.33	62			
1	Wheat Midds	Hanson Bros., Ashland	Manufacturer	12.23	16.0	4.0	5.81	64			
6	Std. Midds	Hanson Bros., Ashland	Manufacturer	12.48	15.0	4.0	7.05	64			
991	Red Seal Std. Midds	Hornel Mig. Co., Austin, Minn.	Eq. Market & Sup. Assn., Merrill	11.29	16.0	5.0	7.63	63			
135	Wheat Midds	Hubbard Mig. Co., Mankato, Minn.	Guy V. Dering, Columbus	11.68	12.0	17.68	5.87	60			
39	Wheat Midds ¹	Huron Mig. Co., Huron, S. D.	Farmers Equity Market & Supply Co., Plymouth	10.31	13.0	4.65	6.7	67			
30	Blackhawk Special Midds ¹	International Mig. Co., New Prague, Minn.	Citizens Coop. Merc. Co., Milladore	10.07	14.0	15.31	7.25	63			
376	Blackhawk Wheat Flour Midds	International Mig. Co., New Prague, Minn.	Neupert Bros., Lake Mills	8.87	14.0	17.25	3.57	66			
377	Blackhawk Std. Midds ¹	International Mig. Co., New Prague, Minn.	Neupert Bros., Lake Mills	8.75	15.0	17.44	5.14	65			
462	Blackhawk Wheat Spec. Midds ¹	International Mig. Co., New Prague, Minn.	Coop. Creamery Co., Ladysmith	11.35	15.0	16.06	4.65	64			
463	Blackhawk Wheat Germ Midds	International Mig. Co., New Prague, Minn.	Coop. Creamery Co., Ladysmith	10.44	21.5	25.91	3.75	47			
990	Blackhawk Wht. Std. Midds ¹	International Mig. Co., New Prague, Minn.	Livingstone & Co., Merrill	10.9	14.0	15.99	8.3	65			
201	Shorts ²	Jackson Mig. Co., Ipswich, S. D.	R. W. Bell, Randolph	13.11	16.5	14.71	3.8	68			
545	Std. Midds ¹	W. J. Jenkinson Co., Minneapolis	O. F. Dunke & Co., New Holstein	8.68	16.0	16.33	4.5	67			
485	Wheat Flour Midds ¹	W. J. Jenkinson Co., Minneapolis	Dodge-Hooker Mills Elev., Marion	7.60	16.0	16.33	3.5	64			
974	Wheat Flour Midds	Ladish Mig. Co., Milwaukee	Burlington Feed Co., Burlington	10.97	14.0	13.25	4.0	62			
226	Wheat Midds	LaGrange Mills, Red Wing, Minn.	Sage-Field Lbr. Co., Delavan	10.22	13.2	16.60	3.2	63			
302	Wheat Fine Midds ¹	Lincoln Mills, Merrill	Manufacturer	10.64	11.0	14.08	3.9	68			
993	Wheat Midds	Luxemburg Mig. Co., Luxemburg	Manufacturer	11.25	12.5	13.53	3.9	67			
994	Wheat Flour Midds	Madella Roller Mills, Madella, Minn.	Wilbur Lbr. Co., Lake Geneva	11.41	16.6	13.89	4.8	68			
993	Wheat Midds	Madella Roller Mills, Madella, Minn.	Connelly Bros., Darlington	9.53	14.7	15.09	4.0	66			
305	Wheat Std. Midds ¹	Madella Roller Mills, Madella, Minn.	Mair & Oldwell, Columbus	8.60	14.25	16.25	3.0	66			
384	Wheat Flour Midds ¹	Marshall Mig. Co., Marshall, Minn.	R. O. Knobla, Oshkosh	10.75	16.2	16.00	4.6	64			
137	Wheat Flour Midds	Marshall Mig. Co., Marshall, Minn.		10.88	15.2	16.75	4.5	64			
194	Wheat Flour Midds	Marshall Mig. Co., Marshall, Minn.		10.88	15.2	16.75	4.5	64			

399	Wheat Shortst	Marshall Mig. Co., Marshall, Minn	12.27	15.0	5.08	4.7	10.6	65	8.54
400	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.88	15.7	5.01	4.0	9.8	66	5.29
401	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.75	16.0	5.05	3.5	9.5	67	5.87
402	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.53	16.0	4.85	3.5	9.5	68	5.85
403	Wheat Midds	Marshall Mig. Co., Marshall, Minn	9.64	16.0	4.74	3.5	9.5	69	5.87
404	Wheat Gray Shortst	Marshall Mig. Co., Marshall, Minn	8.94	16.0	4.87	3.5	9.5	70	7.24
405	Wheat Flour Middst	Marshall Mig. Co., Marshall, Minn	11.31	16.0	4.45	3.5	9.5	71	6.14
406	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.04	15.0	4.86	4.0	9.8	72	5.87
407	Wheat Midds	Marshall Mig. Co., Marshall, Minn	9.64	15.0	4.86	4.0	9.8	73	7.24
408	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.49	15.0	4.51	3.5	9.5	74	10.10
409	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.49	15.5	4.09	3.5	9.5	75	6.79
410	Wheat Flour Midds	Marshall Mig. Co., Marshall, Minn	12.12	15.5	3.79	3.5	9.5	76	6.79
411	Wheat Flour Midds	Marshall Mig. Co., Marshall, Minn	8.95	15.0	4.73	3.5	9.5	77	6.79
412	Wheat Flour Midds	Marshall Mig. Co., Marshall, Minn	9.25	16.0	4.51	4.5	10.1	78	4.94
413	Wheat Flour Midds	Marshall Mig. Co., Marshall, Minn	12.0	16.0	4.52	4.5	10.1	79	5.43
414	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.63	15.0	4.52	4.5	10.1	80	5.14
415	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.87	15.0	4.52	4.5	10.1	81	5.14
416	Wheat A. Middst	Marshall Mig. Co., Marshall, Minn	11.66	15.0	4.49	4.0	9.8	82	5.63
417	Wheat A. Middst	Marshall Mig. Co., Marshall, Minn	8.71	15.0	4.77	4.0	9.8	83	5.29
418	Wheat A. Middst	Marshall Mig. Co., Marshall, Minn	10.19	16.0	4.77	4.0	9.8	84	6.79
419	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.56	14.0	4.48	4.0	9.8	85	6.04
420	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.56	14.0	4.48	4.0	9.8	86	6.04
421	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.56	14.0	4.48	4.0	9.8	87	6.04
422	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.85	15.7	5.1	5.0	11.2	88	9.54
423	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.97	15.1	5.23	5.1	11.2	89	8.80
424	Wheat Midds	Marshall Mig. Co., Marshall, Minn	7.10	14.4	4.53	4.5	10.6	90	7.92
425	Wheat Midds	Marshall Mig. Co., Marshall, Minn	9.62	14.4	4.53	4.5	10.6	91	8.31
426	Wheat Midds	Marshall Mig. Co., Marshall, Minn	7.63	15.0	4.53	4.5	10.6	92	5.20
427	Wheat Midds	Marshall Mig. Co., Marshall, Minn	10.62	15.0	4.53	4.5	10.6	93	8.85
428	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.43	16.0	4.43	4.5	10.6	94	5.79
429	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.83	16.0	4.43	4.5	10.6	95	5.59
430	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.43	16.0	4.43	4.5	10.6	96	7.75
431	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.43	16.0	4.43	4.5	10.6	97	7.75
432	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.09	15.0	4.43	4.5	10.6	98	8.21
433	Wheat Midds	Marshall Mig. Co., Marshall, Minn	8.53	15.0	4.43	4.5	10.6	99	5.40
434	Wheat Midds	Marshall Mig. Co., Marshall, Minn	12.81	16.0	4.43	4.5	10.6	100	5.40
435	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	101	5.40
436	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	102	5.40
437	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	103	5.40
438	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	104	5.40
439	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	105	5.40
440	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	106	5.40
441	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	107	5.40
442	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	108	5.40
443	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	109	5.40
444	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	110	5.40
445	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	111	5.40
446	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	112	5.40
447	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	113	5.40
448	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	114	5.40
449	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	115	5.40
450	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	116	5.40
451	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	117	5.40
452	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	118	5.40
453	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	119	5.40
454	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	120	5.40
455	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	121	5.40
456	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	122	5.40
457	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	123	5.40
458	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	124	5.40
459	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	125	5.40
460	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	126	5.40
461	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	127	5.40
462	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	128	5.40
463	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	129	5.40
464	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	130	5.40
465	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	131	5.40
466	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	132	5.40
467	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	133	5.40
468	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	134	5.40
469	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	135	5.40
470	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	136	5.40
471	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	137	5.40
472	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	138	5.40
473	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	139	5.40
474	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	140	5.40
475	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	141	5.40
476	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	142	5.40
477	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	143	5.40
478	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	144	5.40
479	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	145	5.40
480	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	146	5.40
481	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	147	5.40
482	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	148	5.40
483	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	149	5.40
484	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	150	5.40
485	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	151	5.40
486	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	152	5.40
487	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	153	5.40
488	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	154	5.40
489	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	155	5.40
490	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	156	5.40
491	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	157	5.40
492	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	158	5.40
493	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	159	5.40
494	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	160	5.40
495	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	161	5.40
496	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	162	5.40
497	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	163	5.40
498	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	164	5.40
499	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	165	5.40
500	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	166	5.40
501	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	167	5.40
502	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	168	5.40
503	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	169	5.40
504	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	170	5.40
505	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	171	5.40
506	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	172	5.40
507	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	173	5.40
508	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	174	5.40
509	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	175	5.40
510	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	176	5.40
511	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	177	5.40
512	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	178	5.40
513	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	179	5.40
514	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	180	5.40
515	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	181	5.40
516	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	182	5.40
517	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	183	5.40
518	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	184	5.40
519	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	185	5.40
520	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	186	5.40
521	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	187	5.40
522	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	188	5.40
523	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	189	5.40
524	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	190	5.40
525	Wheat Midds	Marshall Mig. Co., Marshall, Minn	11.04	16.0	4.43	4.5	10.6	191	5.40

†Contains screenings.
 †Jobber: Frank Grath Co., Milwaukee.
 †Jobber: Lincoln Mill, Merrill.
 †Jobber: Deutsch & Siefert Co., Milwaukee.
 †Jobber: Chas. A. Krause Mfg. Co., Milwaukee.
 †Jobber: Donahue-Stratton Co., Milwaukee.
 †Jobber: Donahue-Stratton Co., Milwaukee.
 †Jobber: Deutsch & Siefert Co., Milwaukee.
 †Jobber: Jameson, Heryner Co., St. Paul.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Manufacturer or Agent	Dealer or Farmer	Mois- ture	Protein		Fat		Fiber		Oxydo- hydrites
					Guar.	Found	Guar.	Found	Guar.	Found	
MIDDLINGS—Continued											
399	Wheat Std. Middst	Shane Bros. & Wilson Co., Mpls.	Elkhorn Lbr. Co., Elkhorn	9.67	15.0	16.14	4.0	5.64	11.5	11.22	64
411	Wheat Std. Middst	Shane Bros. & Wilson Co., Mpls.	Wau. Gn. & Prod. Co., Waukesha	9.25	15.0	14.94	4.0	4.65	11.5	9.92	67
28	Fairbow Std. Middst ¹⁰	Sheffield-King Mfg. Co., Mpls.	Average	9.46		15.54		5.15		10.57	66
354	Fairbow Std. Middst	Sheffield-King Mfg. Co., Mpls.	Brettenstein & Tozier Co., Stevens Point	9.15	15.0	15.81	5.0	5.29	9.0	8.36	68
353	Whithope Flour Middst	Sheffield-King Mfg. Co., Mpls.	Chas. S. Morris, Berlin	9.47	15.0	16.56	5.0	4.93	9.5	7.67	65
103	Wheat Std. Middst	Sheffield-King Mfg. Co., Mpls.	Chas. S. Morris, Berlin	10.28	13.0	15.32	4.5	4.86	7.65	6.97	69
948	Red Turkey Pure Wheat Fancy	Sheep Eye Mills, S. Eye, Minn.	Harvey & Son, Platteville	8.94	15.0	16.91	4.1	4.98	8.7	10.35	65
326	White Midds	Western Mfg. Co., Kansas O., Mo	E. J. Balza Co., Abrams	11.19	14.0	15.50	2.5	2.85	6.5	2.14	63
399	Flour Midds & Hominy Feed	Sparr Cereal Co., Marshfield	Manufacturer	8.67	12.0	12.06	3.0	7.36	8.0	5.88	68
695	Flour Midds with Corn Flour	Sparr Cereal Co., Marshfield	Manufacturer	7.38	12.0	9.75	3.0	5.19	8.0	4.19	74
389	Wheat Midds with Corn Flour	Sparr Cereal Co., Marshfield	Manufacturer	7.71	14.0	11.81	3.0	3.56	8.0	5.75	73
997	Wheat Std. Middst	Tennant & Hoyt, Lake City, Minn	Henry Solomon, Monroe	8.70	16.0	16.56	5.0	5.20	8.0	9.23	69
107	Wheat Std. Middst	Tennant & Hoyt, Lake City, Minn	Dodge-Hooker Elev., Birnamwood	10.49	16.0	16.68	5.0	6.05	5.0	7.50	64
			Average	9.60		16.00		5.13		8.22	65
	Flour Middst	Theobald Flour Mill Co., Northfield, Minn.	Equity Warehouse Co., Barneveld	9.49	15.0	16.71	4.0	4.22	8.0	6.96	68
51	Cream Flour Middst	Upton Mill & Elev. Co., Mpls.	S. J. Wall, St. Croix Falls	8.20	15.0	15.33	4.5	4.55	7.0	6.02	68
146	Big Jo Flour Midds	Wab. R. Mill Co., Wabasha, Minn	T. H. Oochrane Elev., Fall River	11.16	15.0	16.33	4.0	5.30	4.0	3.57	65
150	Big Jo Std. Midds	Wab. R. Mill Co., Wabasha, Minn	T. H. Oochrane Elev., Fall River	10.19	15.4	15.03	5.1	5.05	11.8	8.54	65
169	Gray Wheat Shorta	Walnut Crk M. Co., St. Bend, Kas	D. McManman & Sons, Kilbourn	11.87	19.3	19.38	3.8	4.74	5.5	5.85	61
176	Wheat Std. Middst	Washburn-Crosby Mfg. Co., Mpls.	Prust & Buelow, Jefferson	11.65	14.0	16.25	4.0	5.62	11.0	8.40	68
382	Wheat Flour Middst	Washburn-Crosby Mfg. Co., Mpls.	Meech & Bently (City Mills) Beloit	9.12	15.0	17.31	4.0	5.10	5.0	5.89	64
121	Wheat Midds	Willy & Co., Appleton	Manufacturer	9.05	16.0	14.72	4.0	5.07	5.0	7.83	66
40	Std. Middst	Wisconsin Mfg. Co., Menomonie	Model Flour Store, Menomonie	8.14	16.5	15.70	4.0	5.83	6.0	8.13	66
RED DOG											
65	Low Grade	S. G. Campbell Mfg. Co., Northfield, Minn.	Munson & Keegan, Richland Otr.	9.34	19.0	17.15	4.5	4.31	2.5	3.20	67
932	Red Dog	J. P. Douman Mfg. Co., De Pere	E. J. Balza Co., Abrams	10.99	13.9	14.59	3.9	2.86	3.3	1.64	69
980	Red Dog	Hanson Bros. Co., Ashland	Manufacturer	10.90	15.0	13.99	3.0	3.25	5.0	4.60	70

Red Dog	Hanson Bros. Co., Ashland	Manufacturer	9.4	15.0	14.80	3.0	3.80	3.45	69
Sterling Red Dog	Hubbard Mfg. Co., Menketo, Minn	Average	10.27	14.20	3.43	5.0	4.06	70	
Blackhawk Wheat Low Grade Flour	International Mfg. Co., Mpls	Hall & Salisbury, Ro.	11.66	17.5	5.8	5.0	2.80	60	
Blackhawk Wheat Low Grade Flour	International Mfg. Co., Mpls		8.73	13.86	3.21	2.5	1.29	70	
Red Dog	International Mfg. Co., Mpls	A. E. Warnke, Greenwood	10.19	14.5	16.94	2.3	2.5	0.47	69
Red Dog	Jackson Mfg. Co., Stevens Point		10.38	14.05	3.60	2.5	1.47	70	
Red Dog	Lishton Mill Co., La Crosse	Prairie City Gro. Co., P. du Chien	9.69	15.2	4.59	1.8	3.84	67	
Wheat Red Dog	Northern Mfg. Co., Wausau	Dodge-Hooker Elev., Marshfield	11.17	16.0	4.79	3.0	4.23	64	
Low Grade	Oriental Mills, Manitowoc	Manufacturer	11.24	16.0	4.88	3.5	1.82	69	
Low Grade Flour	Oriental Mills, Manitowoc		9.76	16.0	4.03	4.0	.91	71	
Pillsbury XX Dalry	Pillsbury Flour Mills Co., Mpls	Hoffman Feed Co., Madison	8.55	16.0	4.03	4.0	2.81	69	
Pillsbury Red Dog	Pillsbury Flour Mills Co., Mpls	Hoffman Feed Co., Madison	10.80	15.0	4.10	4.0	2.68	64	
Bixota Red Dog	Red Wing Mfg. Co., Red W., Minn	J. H. Timm Co., Plymouth	10.08	14.5	3.62	1.0	3.92	63	
Red Dog Wheat Flour	Shane Bros. & Wilson Co., Mpls	Amery Custom Feed Mill, Amery	11.69	16.0	4.84	4.0	4.16	69	
Red Dog and Corn Flour	Sparr Cereal Co., Marshfield	Amery Custom Feed Mill, Amery	9.67	10.0	12.39	1.0	2.67	64	
Red Dog	Washburn-Crosby Mfg. Co., Mpls	S. V. Dodge, Brodhead	8.35	16.0	4.0	4.0	0.98	69	
Adrian Red Dog	Washburn-Crosby Mfg. Co., Mpls	Ole Sandley, Browtown	7.62	14.0	17.88	4.0	0.57	67	
Arlington Flour	Washburn-Crosby Mfg. Co., Mpls	Farmers' Warehouse Co., Edgerton	10.82	14.0	16.99	4.0	0.75	71	
Feedwell Low Grade Flour	Wells Flour Mfg. Co., Wells, Minn.	Average	9.22	17.39	3.73	4.0	2.55	69	
Red Dog	Willy & Co., Appleton	Citizens Merc. Coop. Co., Milladore	8.41	14.5	13.97	4.0	0.38	73	
Low Grade Flour	Willy & Co., Appleton	Manufacturer	9.58	15.0	13.54	6.78	2.56	67	
Red Dog	Wisconsin Mfg. Co., Menomonie	Model Flour Store, Menomonie	9.75	17.69	5.12	6.23	3.16	65	
Red Dog	Wisconsin Mfg. Co., Menomonie	Geo. Schroeder, Milwaukee	11.13	17.59	5.17	6.23			
OAT FEEDS									
Oat Midds	Armour Grain Co., Chicago	O. Meier & Sons, Milwaukee	8.08	15.0	6.12	5.0	7.69	66	
Oat Feed	Armour Grain Co., Chicago	Schultz Bros., Sheboygan	7.45	4.5	4.88	1.5	29.69	81	
Oat Feed	Quaker Oats Co., Chicago	F. E. Green, Ft. Atkinson	8.01	3.94	1.28	2.0	34.07	82	
Vim Feed	Quaker Oats Co., Chicago	S. Pierson, Belgium	7.98	5.0	6.25	2.0	23.85	79	
Vim Feed	Quaker Oats Co., Chicago	Dodge-Hooker Mills, Wausau	7.66	5.0	6.31	2.0	27.59	79	
		Average	7.77	6.25	2.19		25.47		
RYE FEEDS									
Rye Feed (bran and midds)	Falls R. Mills Co., Sheboygan Falls	Manufacturer	9.74	14.31	8.00		4.75	68	
Rye Feed	Falls R. Mills Co., Sheboygan Falls	Manufacturer	11.13	14.91	8.24		4.20	67	
Rye Midds	Globe Mfg. Co., Watertown	Manufacturer	10.76	15.31	3.5		6.05	69	
Rye Low Grade	Globe Mfg. Co., Watertown	Manufacturer	10.63	17.0	3.5		2.40	69	
Rye Feed	F. F. Grall, Whitesaw	Manufacturer	11.30	14.00	2.60		3.40	68	

†Contains screenings.
 **Jobber: Jackson Mfg. Co., Stevens Point.
 ***Jobber: Dentach & Siefert Co., Milwaukee.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Manufacturer or Agent	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo- hydrates
					Guar.	Found	Guar.	Found	Guar.	Found	
RYE FEED—Continued											
341	Whirlwind Rye Low Grade	Grd. Rapids Mfg. Co., Wis. Rapids	Manufacturer	9.42	13.0	15.94	2.0	2.99	4.0	3.35	67
343	Whirlwind Rye Midds.	Grd. Rapids Mfg. Co., Wis. Rapids	Manufacturer	9.25	14.5	17.44	3.0	4.43	12.0	8.77	65
506	Grd. Rapids Mfg. Co., Wis. Rapids	Grd. Rapids Mfg. Co., Wis. Rapids	Manufacturer	8.57	15.38	15.88	8.0	3.80	5.7	6.01	63
507	Rye Low Grade	Grd. Rapids Mfg. Co., Wis. Rapids	Manufacturer	8.19	15.88	15.88	8.0	2.53	2.21	2.21	69
3	Rye Midds	Hanson Bros. Ashland	Manufacturer	11.48	15.0	14.88	8.0	2.23	8.0	4.55	67
364	True Value Pure Rye Midds.	Ladish Mfg. Co., Milwaukee	Farmers' Equity Market & Supply Co., Plymouth	9.23	13.5	16.04	3.0	3.52	7.25	5.90	67
959	Rye Feed	Luxemburg Mfg. Co., Luxemburg	Manufacturer	11.39	14.6	14.33	3.4	2.93	3.54	3.51	67
117	Rye Feed	Oriental Mills, Manitowoc	Manufacturer	9.39	14.0	15.09	2.5	2.93	6.0	4.81	69
498	Rye Feed	Oriental Mills, Manitowoc	Manufacturer	9.12	15.0	15.0	8.0	2.89	—	4.81	69
18	Pure Rye Midds	Oscola Mill & Elev. Co., Oscola	A. O. A., Prentice	10.59	14.5	16.35	3.0	3.47	10.0	5.11	69
950	Rye Midds	Peshigo Mfg. Co., Peshigo	Manufacturer	11.31	14.53	14.53	8.5	2.97	—	3.53	69
437	Rye Midds	Pillsbury Flour Mills Co., Mpls.	J. P. Altenhofer, Random Lake	6.82	15.0	17.13	3.5	3.30	9.0	5.05	68
21	Rye Feed	Sparr Cereal Co., Marshall	Manufacturer	10.40	14.5	16.44	2.5	3.24	8.0	6.54	69
403	Rye Midds	Washburn-Crosby Mfg. Co., Mpls.	Meleher Lbr. Co., Wild Rose	8.62	14.0	16.19	3.0	3.67	6.0	6.81	69
334	Rye Feed	Weyauwega Mfg. Co., Weyauwega	Manufacturer	8.25	13.50	13.50	—	3.63	—	6.39	68
BARLEY FEEDS											
55	Devro Brand Barley Feed	W. P. Devereux Co., Minneapolis	Oscola Mill & Elev. Co., Rice Lake	7.75	11.0	10.39	1.5	2.73	10.0	16.94	75
296	Blue Cross Barley Feed	E. P. Doty, Janesville	Manufacturer	12.85	7.0	10.56	3.0	2.89	5.0	7.53	71
17	Ground Feed Barley ¹	Fruen Cereal Co., Minneapolis	Anton Brendel, Phillips	—	—	—	—	—	8.0	7.46	—
5	Ground Barley ²	Hanson Bros., Ashland	Manufacturer	12.83	—	—	—	—	—	5.90	—
936	Ground Barley ³	Lincoln Mill, Merrill	Manufacturer	12.43	—	—	—	—	—	5.70	—
50	Ground Barley ⁴	Oscola Mill & Elev. Co., Oscola	Oscola Mill & Elev. Co., St. Croix Falls	—	—	—	—	—	—	—	—
963	Fancy Ground Feed Barley ⁵	Schreiber Mfg. & Grain Co., Mpls.	F. F. Grall, Whitelaw	8.75	—	—	—	—	8.0	6.65	—
				10.61	—	—	—	—	8.5	7.76	—
BUCKWHEAT FEEDS											
285	Buckwheat Midds	E. P. Doty, Janesville	Manufacturer	11.60	7.0	30.63	2.0	7.77	10.0	7.03	45
840	Buckwheat Feed	Gd. Rapids Mfg. Co., Wis. Rapids	Manufacturer	10.24	13.0	11.81	3.5	2.13	33.0	46.94	74
60	Buckwheat Bran	Sarrington Mfg. Co., Delton	W. S. Oracker, Reedburg	8.07	11.04	11.04	—	3.13	—	35.00	77
93	Buckwheat Feed	Wis. Gr. & Cereal Co., Eau Claire	G. B. Ingalls, Eau Claire	10.68	4.06	4.06	—	1.00	—	43.57	79

CORN AND OAT FEEDS												
447	Oat Feed	Bangor Mfg. Co., Bangor, Wis.	8.95	10.16	9.51	3.67	5.57	4.82	74			
448	Corn and Oat Feed	Davis Mill Co., Galesville	9.35	10.13	9.51	3.53	5.57	4.81	73			
449	Blue Cross Corn and Oat Feed	E. P. Doty, Janesville	12.23	10.13	9.51	3.0	4.86	4.70	73			
450	Chop Feed (O. & O.)	A. Grams & Son, La Crosse	9.45	10.0	10.19	4.0	3.71	5.0	73			
451	Whirlwind Corn and Oat Feed	Gd. Rapids Mfg. Co., Wis. Rapids	10.53	9.0	10.19	4.0	3.57	5.0	72			
452	Corn and Oat Feed	Gd. Rapids Mfg. Co., Wis. Rapids	11.23	9.0	10.13	4.0	3.20	7.0	72			
453	Green's Peerless Ground Feed	F. H. Green & Son, Janesville	12.57	9.0	9.13	4.50	3.15	5.33	71			
454	Corn and Oat Feed	Greenwood Rot. Mills Co., Greenwood	9.44	9.6	10.83	4.10	3.81	9.89	71			
455	Corn and Oat Feed	Hanson Bros. Co., Ashland	12.03	9.6	10.83	2.6	3.81	4.03	70			
456	Corn and Oat Feed	Hanson Bros. Co., Ashland	12.42	9.6	10.44	2.5	3.51	3.6	69			
457	Corn and Oat Feed	Average	12.23	10.16	10.16	4.0	4.23	3.77	71			
458	Corn and Oat Feed	Manufacturer	12.02	9.0	9.05	3.0	3.62	6.0	71			
459	Ground Corn and Oat Feed	Manufacturer	10.33	10.0	11.13	4.0	3.76	7.44	69			
460	Corn and Oat Feed	Co-operative Store Co., Bruce	12.77	9.10	9.54	3.4	4.37	7.8	70			
461	Corn and Oat Feed	Lincoln Mill, Merrill	12.49	9.2	9.63	3.6	3.93	7.6	73			
462	Corn and Oat Feed	McKercher & Rossler, Wis. Rapids	10.09	9.0	10.75	3.25	3.43	7.0	72			
463	Corn and Oat Feed	Menomonee Mfg. Co., Menomonee	8.41	10.0	9.04	3.5	4.26	7.0	70			
464	Corn and Oat Feed	Merrill Elev. Co., Merrill	11.80	9.0	9.69	3.0	3.63	7.0	70			
465	Banner No. 2 O. and O. Feed	Northern Supply Co., Amery	11.42	10.0	10.19	3.5	3.95	7.0	70			
466	Banner No. 2 C. and O. Feed	Northern Supply Co., Amery	11.49	9.0	10.19	3.5	4.03	7.0	72			
467	Banner No. 2 C. and O. Feed	Northern Supply Co., Amery	10.17	9.0	10.25	3.5	4.04	7.0	72			
468	No. 2 Ground Feed	Oscola Mill & Elev. Co., Oscola	11.72	9.0	10.23	3.5	4.04	7.0	70			
469	Corn and Oat Feed	Average	10.83	9.0	9.51	3.5	4.23	5.0	70			
470	Corn and Oat Feed	Spart Cereal Co., Marshfield	9.17	9.5	9.94	3.25	3.41	7.39	74			
471	No. 2 Feed	G. J. Gilmore, Marshfield	10.93	8.5	9.19	4.0	3.51	7.0	72			
472	North Star No. 2 O. & O. Feed	A. C. A., Junction City	10.97	9.0	9.95	3.0	3.55	8.0	73			
473	Corn and Oat Feed	Wells-Olsen Mfg. Co., De Pere	9.05	10.5	10.25	3.8	3.95	7.0	73			
474	Corn and Oat Feed	Wisconsin Mfg. Co., Menomonee	11.64	10.0	9.23	4.0	4.70	6.91	69			
475	Corn and Oat Feed	Willy & Co., Appleton	11.64	10.0	9.23	4.0	4.70	6.91	69			
BREWERS' GRAINS												
26	Steam Dried Brewers' Grains	Anheuser-Busch Co., St. Louis, Mo.	8.11	25.23	22.48	6-8	5.56	13-16	60			
181	Steam Dried Brewers' Grains	Anheuser-Busch Co., St. Louis, Mo.	8.40	25.23	22.50	6-8	5.98	13-16	54			
296	Steam Dried Brewers' Grains	Anheuser-Busch Co., St. Louis, Mo.	9.10	25.23	24.53	6-8	5.64	13-16	56			
61	Dried Brewers' Grains	R. W. Knapp, Elkhorn	8.80	24.0	21.83	6.0	5.97	13.0	60			
297	Brewers' Dried Grains	T. A. Hauschel, Chicago	9.03	20.25	25.44	5-7	4.84	13.08	57			
298	Crown Brewers' Dried Grains	Degetsch Bros., Milwaukee	7.68	20.0	25.45	5.0	4.84	13.08	60			
299	Crown Brewers' Dried Grains	Elkhorn Lar Co., Elkhorn	9.05	20.25	22.46	5-6	4.84	13.08	62			
253	Brewers' Dried Grains	St. Makowski, Milwaukee	7.68	20.25	21.54	5-6	4.84	13.08	60			

*Not determined for protein and fat.

†Contains screenings.
‡Determined for moisture and fiber only.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Name o' Brand	Manufacturer or Agent	Dealer or Farmer	Mol- ture	Protein		Fat		Fiber		Carbo- hydrates
				Guar.	Found	Guar.	Found	Guar.	Found	
DISTILLERS' GRAINS										
109 Distillers' Grains ⁴¹	American Mfg. Co., Peoria, Ill.	John Kloehn, Forest Junction	6.38		31.10		12.07		18.22	46
125 Corn Distillers' Grains	American Mfg. Co., Peoria, Ill.	Willy & Co., Appleton	5.97	23.0	30.33	8.0	10.21	15.0	14.82	50
167 Corn Distillers' Grains	American Mfg. Co., Peoria, Ill.	Mauston Farmers' Co., Mauston	5.40	29.40	29.40		12.60		18.60	49
110 Distillers' Grains	American Mfg. Co., Peoria, Ill.	Wm. J. Rogan, Mauston	4.83		30.07		12.61		18.30	49
924 Distillers' Grains ⁴²	Chapin & Co., Chicago	John H. Williams, Waukesha	5.52	29.40	29.40		12.27	5.52	18.32	44
287 Distillers' Grains ⁴³		E. P. Doty, Janesville	7.72		32.64		11.23		11.68	44
933 Distillers' Dried Grains	G. H. St. John Co., Superior	Manufacturer	6.85	30.0	30.02	10.13	11.23	14.0	13.5	48
925 Distillers' Grains		J. H. Williams, Waukesha	6.65		32.43		12.62		12.66	45
ALFALFA FEED										
49 Alfalfa Meal ⁴⁴	Denver Alfalfa M. Co., Abilene, Kas	Frederic Produce Co., Frederic	6.20	12.0	12.69	1.5	1.39	35.0	32.35	71
249 Alfalfa Meal ⁴⁴		C. Meir & Sons, Milwaukee	9.58		13.81		1.35		31.85	67
87 Alfalfa Meal	Otto Wels M. Co., Kas. City, Mo.	J. A. Salzer Seed Co., La Crosse	6.81	12.0	10.1	1.0	.96	35.0	39.74	73
MEAT SCRAPS										
72 Armour Meat Meal	Armour Fertilizer Works, Chicago	Brittingham-Hixon Lbr. Co., Blue River	6.54	60.0	60.0	6.0	8.61	2.0	2.19	
209 Meat Scraps ⁴⁵	Darling & Co., Chicago	Helmer Mfg. Co., Fond du Lac	8.37		60.55		6.74		2.35	
69 Capital Brand Tankage	Oscar Mayer & Co., Madison	Frank Groves, Muscoda	3.59	40.0	34.62	12.0	8.11			
279 Meat Scraps for Poultry	O. Poppeiman, Racine	Hoffman Feed Co., Madison	6.47	50.60	59.55	8.0	7.42			
312 Hygrade Digester Tankage	Rogers Grn Pro. Co., Belvidere, Ill.	Chas. H. Reibow, Milwaukee	7.30	40.0	60.37	6.0	9.03			
		Jensen & Olson, Kenosha	7.50	60.0	51.30	7.0	8.13			
BEEF PULP										
449 Beef Pulp	Larowe Mfg. Co., Detroit, Mich.	Bur Feed Co.	8.10	8.0	9.13	0.5	1.05	30.0	18.85	80
124 Beef Pulp	Menominee River Sugar Co., Me- nominee, Mich.	Willy & Co., Appleton	8.65		7.56		0.82		20.40	83
363 Steam Dried Beef Pulp	Menominee River Sugar Co., Me- nominee, Mich.	J. H. Timm Co., Plymouth	9.64		7.75		0.62		17.47	80
207 Dried Beef Pulp ⁴⁶	Minnesota Sugar Co., Chaska, Minn	Helmer Mfg. Co., Fond du Lac	9.41	8.0	8.63	.5	0.55	20.0	21.1	80
929 Dried Beef Pulp ⁴⁷	Minnesota Sugar Co., Chaska, Minn	J. L. Ross Co., Superior	10.61	8.0	9.06	.5	.5	20.0	19.53	78

SCREENINGS									
448	Screenings	Interstate Flour & Fd. Co., Mpls.	John V. Sturner, Curtla.	9.11	15.88	4.86	6.82	62	
450	Screenings	Interstate Flour & Fd. Co., Mpls.	John V. Sturner, Curtla.	12.88	14.69	4.70	6.51	64	
500	Ground Screenings	Jackson Mfg. Co., Stevens Point.		8.24	12.56	2.62	15.40	73	
451	Screenings ^{as}		Gottes Bros., Amery	10.81	14.8	6.24	11.80	66	

*Jobber: Ed Bierns, Oakfield.
 *Jobber: O. A. Anderson Co., Palmyra.
 *Jobber: Northrup King & Co., Minneapolis.
 *Jobber: Ladish Mfg. Co., Milwaukee.
 *Jobber: Hales & Hunter Co., Chicago.
 *Jobber: Hales & Hunter Co., Chicago.
 *Jobber: Larroye Mfg. Co., Detroit, Mich.
 *Jobber: B. W. Elgby, Amery.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo- Hydrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
DAIRY FEEDS											
47	Dairy Feed Mfr.: Anderholm Bros., Clear Lake.	Manufacturer	8.74		13.47		4.90		9.47	68	Bran, cottonseed meal, ground oats, barley, corn.
82	Atlantic Dairy Feed Mfr.: Arcady Farms Mig. Co., Chicago.	Farmers Co-operative Shipping & Supply Assn., West Salem.	6.86	15.0	14.70	3.0	4.40	15.0	13.90	69	Cottonseed meal, wheat bran, screenings, clipped oat by-pro- ducts, molasses, salt.
279	Alkanctic Dairy Feed Mfr.: Arcady Farms Mig. Co., Chicago.	Neupert Bros., Lake Mills	5.99	15.0	15.02	3.5	6.62	15.0	13.72	68	Cottonseed meal, bran, screenings, clipped oat by-product, molasses, salt.
113	Milkers Ready Ration Mfr.: Arcady Farms Mig. Co., Chicago.	Oakfield Elev. Co., Oakfield.	6.93	22.0	20.81	4.0	5.00	11.0	11.11	68	Cottonseed meal, corn oil meal, screenings, clipped oat by-pro- ducts, molasses, salt.
230	Arco Milk Ration Mfr.: Arcady Farms Mig. Co., Chicago.	Waukesha Grain & Produce Co., Waukesha.	11.04	20.0	21.18	4.0	4.92	12.0	13.51	69	Oil meal, cottonseed meal, bran, middlings, corn oil cake, gluten feed, screenings, clipped oat by- products, molasses, salt.
287	Arco Milk Ration Mfr.: Arcady Farms Mig. Co., Chicago.	Wausau Farmers' Produce Co., Wausau. Average	12.46 11.75	20.0 20.87	20.56 20.87	4.0 4.36	5.09 4.36	12.0 11.02	8.53 11.02	57	Molasses, oil meal, cottonseed meal, bran, middlings, corn oil cake, gluten feed, oat hulls, oat shorts, screenings, clipped oat by-pro- ducts, salt.
296	Armour Dairy Feed Mfr.: Armour Grain Co., Chicago.	Armour Grain Co., Walworth.	10.23	22.0	22.51	4.0	6.02	14.0	11.99	56	Gluten feed, corn germ meal, cot- tonseed meal, linseed meal, cocoa nut meal, bran, hominy feed, oat shorts, middlings, hulls, salt.
297	Special Dairy Feed Mfr.: Armour Grain Co., Chicago.	Stram & Keyes, Green Bay	10.04	18.0	17.74	4.0	4.54	14.0	12.25	---	Gluten feed, oil meal, cocoanut meal, corn oil cake, bran, hom- iny feed, oat hulls, oat shorts, salt.

362	Comco Ready Ration. Mfr.: Cereal Mills Co., Wausau.	Chas. H. Wegner, Wausau.	10.65	20.0	21.39	5.0	4.84	11.0	8.89	58	Hominy meal, cottonseed meal, bran, middlings, gluten feed, barley feed, brewers' grains, malt sprouts, oil meal, salt.
363	Champion Challenge Dairy Fd. Mfr.: Champion Mig. & Chapin Co., Clinton, Iowa.	Ripon Roller Mill, Ripon.	10.72	15.0	15.29	3.5	4.71	15.0	10.83	64	Cottonseed meal, bran, corn feed meal, oat by-products, alfalfa meal, screenings, molasses, salt.
369	Champion Record Dairy Feed. Mfr.: Champion Mig. & Chapin Co., Clinton, Iowa.	Ripon Roller Mill, Ripon.	10.14	20.0	21.72	4.0	5.42	10.0	9.15	56	Hominy feed, oil meal, gluten feed, bran, ground oats, barley, molasses, salt.
420	Grain Co., Clinton, Iowa. Champion Superior Dairy Feed Mfr.: Champion Mig. & Chapin Co., Clinton, Iowa.	Schultz Bros., Sheboygan.	12.06	24.0	24.31	4.5	5.07	12.0	8.69	54	Linseed meal, cottonseed meal, gluten feed, bran, oats, alfalfa meal, molasses, salt.
298	Grain Co., Clinton, Iowa. Uniform Dairy Ration. Mfr.: Chapin & Co., Chicago.	Elkhorn Lbr. Co., Elkhorn.	9.23	24.0	24.62	4.5	4.64	10.0	7.36	56	Cottonseed meal, linseed meal, gluten feed, corn oil meal, brewers' grains, bran, hominy meal, salt.
153	Green Dairy Ration. Mfr.: Albert Dickinson Co., Chicago.	I. W. York, Portage.	9.94	20.0	19.74	4.0	4.65	10.0	10.75	60	Bran, middlings, cottonseed meal, oil meal, gluten feed, corn feed meal, corn bran, malt sprouts.
174	Wisconsin Balanced Ration. Mfr.: Dodge-Hooker Mills, Wausau.	A. S. Williams, Beaver Dam.	10.44	20.0	20.25	5.0	5.23	11.0	9.63	59	Hominy feed, cottonseed meal, bran, gluten feed, middlings, brewers' grains, malt sprouts, oil meal, corn oil cake, barley, salt.
325	Maxima Dairy Ration. Mfr.: Dodge-Hooker Mills, Wausau.	Dodge-Hooker Elev., Marshfield.	8.87	26.0	25.96	5.5	5.72	11.0	8.39	53	Hominy meal, oil meal, gluten feed, brewers' grains, bran, gluten meal, corn oil meal, salt.
99	Wis. No. 2 Dairy Feed. Mfr.: Fennimore Roller Mills, Fennimore.	Fennimore Roller Mill, Fennimore	9.93	13.51	-----	4.84	-----	8.34	-----	-----	Corn, oats, cottonseed meal, oil meal, bran.
16	Milk Way A Dairy Feed. Mfr.: Grand Rapids Mig. Co., Wisconsin Rapids.	Manufacturer	9.11	24.0	23.70	2.7	4.98	12.4	12.5	56	Bran, gluten feed, oil meal, cottonseed meal, brewers' grains, salt.
342	Milk Way A Dairy Feed. Mfr.: Grand Rapids Mig. Co., Wisconsin Rapids.	Manufacturer	8.64	24.0	27.65	2.7	5.62	12.4	11.71	58	Bran, gluten feed, oil meal, corn meal, salt.
509	Milk Way A Dairy Feed. Mfr.: Grand Rapids Mig. Co., Wisconsin Rapids.	Average	7.11 8.29	24.0	27.09 26.15	2.7	5.65 5.41	12.4	10.50 11.57	55 55	Bran, gluten feed, oil meal, cottonseed meal, salt.
338	Milk Way Dairy Feed B. Mfr.: Grand Rapids Mig. Co., Wisconsin Rapids.	Johnson & Hill, Wisconsin Rapids	9.05	20.0	22.46	3.8	4.84	14.3	10.55	58	Bran, gluten feed, oil meal, cottonseed meal, brewers' grains, salt.
508	Milk Way Dairy Feed B. Mfr.: Grand Rapids Mig. Co., Wisconsin Rapids.	Average	7.69	20.0	22.77	3.8	5.47	14.3	10.29	59	Bran, gluten meal, oil meal, cottonseed meal, brewers' grains, salt.
			8.37	-----	22.62	-----	5.19	-----	10.47	-----	

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo-hydrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
	DAIRY FEED—Continued										
229	Green's Peerless Dairy Feed— Mfr.: F. H. Green & Son, Janesville.	Manufacturer	11.85	15.0	11.72	4.0	3.55	8.44	—	68	Bran, oil meal, oats, barley, corn, kafir, salt.
316	Gund's 20 Mfr.: The Gund Co., La Crosse.	F. D. Balles, West Salem	7.28	20.0	19.33	4.0	5.53	12.0	12.88	64	Alfalfa, cottonseed meal, brewers' grains, malt sprouts, malt, oil meal, oats, barley feed, bran, barley.
317	Gund's 15 Mfr.: The Gund Co., La Crosse.	F. D. Balles, West Salem	7.17	15.0	20.94	3.5	4.74	15.0	12.00	64	Brewers' grains, malt sprouts, malt, bran, cottonseed meal, al- falfa, barley feed, oats, barley, oat hulls.
241	College Dairy Feed— Mfr.: Hales and Hunter Co., Chicago.	Kneisler Bros., Milwaukee	10.00	25.0	21.88	4.0	5.00	10.0	10.10	58	Oorn feed meal, bran, oil meal, gluten feed, cottonseed meal, oat clippings, ground oat shorts, salt.
320	Red Horn Dairy Feed— Mfr.: Hales and Hunter Co., Chicago.	Jensen & Olson, Kenosha	10.42	20.0	18.97	4.0	4.67	8.0	8.86	61	Oorn feed meal, oats, barley, bran, oil meal, gluten feed, cot- tonseed meal, calcium phosphate, salt.
182	International Ready Ration— Mfr.: International Sugar Feed Co., Minneapolis.	Guy V. Dering, Columbus	11.38	20.0	18.46	5.0	5.08	11.0	11.94	60	Oil meal, cottonseed meal, gluten feed, bran, middlings, clipped oat by-products, screenings, mo- lasses, salt.
183	Climax Dairy Feed— Mfr.: International Sugar Feed Co., Minneapolis.	Guy V. Dering, Columbus	10.8	12.0	14.05	4.0	5.14	12.5	7.21	65	Cottonseed meal, molasses, ground clipped oat by-products, screen- ings, salt.
184	Special Dairy Feed— Mfr.: International Sugar Feed Co., Minneapolis.	Guy V. Dering, Columbus	11.58	15.0	15.93	4.0	5.13	12.0	10.53	62	Oil meal, cottonseed meal, gluten feed, bran, molasses, clipped oat by-products, screenings, salt.
977	Diamond Dairy Feed— Mfr.: International Sugar Feed Co., Minneapolis.	Badger Grain Co., Bear Creek	11.37	24.0	23.05	5.0	5.98	12.0	9.10	55	Gluten feed, bran, oil meal, cot- tonseed meal, molasses, screen- ings, salt.

196	Badger Dairy Feed. Mfr.: Chas. A. Krause Mig. Co., Milwaukee.	Chase & Son, Sun Prairie.	8.06	16.5	18.73	3.5	5.72	19.0	14.70	62	Alfalfa meal, cottonseed meal, screenings, flax plant by-pro- ducts, molasses, salt.
434	Krause Dairy Feed. Mfr.: Chas. A. Krause Mil- ling Co., Milwaukee	Knauf & Tsch, Chilton.	6.70	24.0	23.95	5.0	7.27	10.0	10.10	57	Brewers' dried grains, gluten feed, linseed meal, cottonseed meal, hominy feed, corn germ meal, bran, middlings, corn meal, salt.
185	Record Maker Dairy Ration. Mfr.: Ladish Mig. Co., Milwaukee.	Peachey Elevator, Beaver Dam.	7.04	24.0	25.39	4.5	4.99	13.0	10.53	57	Cottonseed meal, linseed meal, gluten feed, copra meal, ground oats, hominy feed, alfalfa meal, molasses, bran, salt.
308	True Value Dairy Feed. Mfr.: Ladish Mig. Co., Milwaukee.	F. M. Durkee & Son, Lake Geneva	9.06	24.0	22.54	5.0	5.62	10.0	10.13	57	Cottonseed meal, gluten feed, lin- seed meal, ground oats, hominy feed, cocoanut meal, corn, bran, middlings, salt.
27	Red Oak Dairy Feed. McKerther and Rossler, Wisconsin Rapids.	Manufacturer	9.43	18.0	18.31	4.5	4.67	13.0	9.74	63	Bran, middlings, corn meal, oil meal, ground oats, salt.
339	Red Oak Dairy Feed. McKerther and Rossler, Wisconsin Rapids.	Johnson & Hm, Wisconsin Rapids	9.14	20.0	19.04	4.5	4.83	13.0	9.53	62	Bran, middlings, corn meal, oil meal, cottonseed meal, ground oats, gluten feed, salt.
349	Red Oak Cow Feed. McKerther and Rossler, Wisconsin Rapids.	Manufacturer	8.92	16.0	18.76	3.5	4.54	13.0	10.63	63	Bran, middlings, cottonseed meal, oil meal, corn meal, salt.
233	Stevens "44" Mfr.: Park and Pollard Co., Chicago.	Globe Milling Co., Watertown.	10.39	24.0	24.05	5.0	6.61	14.0	12.30	54	Oil meal, cottonseed meal, bran, gluten feed, cocoanut meal, pea meal, corn distillers' grains, brew- ers' dried grains, barley, mid- dlings, hominy meal, buckwheat offal, corn meal, salt.
20	Pillsbury's Dairy Ration. Mfr.: Pillsbury Flour Mills Co., Minneapolis.	Otto W. Eggert, Medford.	9.30	19.0	13.60	4.0	4.56	11.0	10.91	63	Ground oats, bran, hominy feed, linseed meal, gluten feed, stand- ard middlings, cottonseed meal.
147	Pillsbury's Dairy Ration. Mfr.: Pillsbury Flour Mills Co., Minneapolis.	T. H. Oochrane Elev., Fall River	9.05	19.0	13.60	4.0	4.55	11.0	10.73	63	Oats, bran, hominy feed, oil meal, gluten feed, standard middlings, cottonseed meal, salt.
221	Pillsbury's Dairy Ration. Mfr.: Pillsbury Flour Mills Co., Minneapolis.	Hoffman Feed Co., Madison.	9.86	19.0	19.07	4.0	4.19	11.0	11.17	62	Oats, bran, hominy feed, oil meal, gluten feed, cottonseed meal, salt.
68	Quaker Dairy Feed with mo- lasses. Mfr.: Quaker Oats Co., Chicago.	Average	9.60	---	13.73	---	4.43	---	10.94	63	
		H. Marcus & Sons Co., Spring Green	9.47	16.0	14.19	4.5	4.41	16.0	12.83	67	Molasses, corn distillers' grains, cottonseed meal, screenings, oat hulls, oat shorts, calcium phos- phate, salt.

*Jobber: Alex Sinanko, Madison.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Mol- ture	Protein		Fat		Fiber		Carbo- hydrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
DAIRY FEED—Concluded											
139	Quaker Dairy Fd with molasses Mfr.: Quaker Oats Co., Chicago.	Waxen & Free, Columbus	12.29	16.0	15.08	4.5	4.29	16.0	13.71	63	Molasses, corn, distillers' grains, cottonseed meal, screenings, oat hulls, oat shorts, calcium phos- phate, salt.
914	Quaker Dairy Fd with molasses Mfr.: Quaker Oats Co., Chicago.	Alex Sinaiko, Madison Average	11.45 11.07	16.0	14.10 14.44	4.5	3.91 4.20	16.0	16.71 14.25	66 65	Molasses, corn, distillers' grains, cottonseed meal, screenings, oat hulls, oat shorts, calcium phos- phate, salt.
157	Big Q Dairy Feed Mfr.: Quaker Oats Co., Chicago.	T. H. Cochran Co., Portage Chicago.	8.59	21.0	22.41	4.0	5.02	11.0	10.89	59	Cottonseed meal, distillers' grains, hominy feed, corn gluten feed, oil meal, middlings, bran, oat hulls, oat shorts, calcium phosphate, salt.
934	Zenith Dairy Ration Mfr.: G. H. St. John Co., Superior.	Manufacturer	8.90	20.0	20.71	5.0	5.75	10.5	8.73	60	Gluten feed, bran, oats, oil meal, cottonseed meal, corn meal, hominy feed, distillers' grains, salt.
257	Vitex Dairy Feed Mfr.: Smith Mig. Co., Milwaukee.	Wilbur Lbr. Co., Milwaukee	9.70	24.0	24.28	6.0	5.77	11.0	11.23	55	Distillers' grains, brewers' grains, gluten feed, hominy feed, oil meal, cottonseed meal, bran, corn oil meal, malt sprouts, salt.
388	Smith's Balanced Ration Mfr.: Smith Mig. Co., Milwaukee.	Monroe Roller Mills, Monroe	8.37	18.0	21.13	4.0	4.69	11.0	9.95	61	Hominy feed, cottonseed meal, gluten feed, bran, middlings, brewers' grains, malt sprouts, barley feed, linseed meal, salt.
27	Gold Bond Dairy Ration Mfr.: Sparr Cereal Co., Marshfield.	Manufacturer	8.17	20.0	20.06	4.0	4.88	10.0	10.14	62	Gluten feed, oil meal, cottonseed meal, bran, middlings, malt sprouts, corn feed meal, corn bran.

CATTLE FEEDS											
162	Blatchford's Calf Meal Mfr.: Blatchford Calf Meal Co., Waukegan, Ill.	T. H. Oochrane Co., Portage	10.15	24.0	23.75	5.0	5.25	6.5	6.60	56	Locust bean meal, flaxseed, wheat flour, malt sprouts, ground beans and peas, rice polish, oil meal, cocoashell meal, coconut meal, cottonseed meal, foenegreek, dried buttermilk, anise, salt.
54	Queen Calf Meal Mfr.: Albert Dickinson Co., Minneapolis.	John West, Barron	7.82	20.0	20.87	6.0	6.30	7.0	5.54	60	Wheat, flax, barley, oats, bean meal, oil meal, cottonseed meal, dried blood.
495	Wisconsin Calf Meal Mfr.: Dodge-Hooker Mills, Wausau.	H. Froehlich, Glenbeulah	10.68	25.0	26.47	5.0	4.03	6.0	4.00	54	Flaxseed meal, pea meal, wheat flour, oil meal, blood, corn germ meal, cottonseed meal, salt.
104	Martin's Calf Meal Mfr.: Martin Calf Feed Co., Mineral Point.	Manufacturer	8.80	26.0	24.03	6.0	5.68	6.0	6.02	56	Flaxseed, oil meal, germ middlings, wheat flour, corn meal, cottonseed meal, blood meal, foenegreek, cocoanut meal, peanut oil meal, charcoal, salt.
273	Martin's Calf Meal Mfr.: Martin Calf Feed Co., Mineral Point.	Sinalko Bros., Madison	11.35	26.0	19.86	6.0	4.49	6.0	6.38	59	Flaxseed meal, oil meal, germ middlings, wheat flour, corn meal, blood meal, foenegreek, cocoanut meal, peanut oil meal, oat meal, charcoal, salt.
949	No Milk Calf Feed Mfr.: National Food Co., Fond du Lac.	Jackson & Sons Co., De Pere	10.91	17.25	19.00	5.0	4.14	6.0	4.91	60	Gentian, anise, sulphur, poplar bark, foenegreek, charcoal, middlings, fennel, salt, oil meal, ginger, tamarack bark, licorice.
301	Purina Calf Chow Mfr.: Ralston Purina Co., St. Louis, Mo.	Sage-Fifield Co., Delavan	11.50	33.0	26.66	3.2	3.03	3.5	3.23	56	Blood flour, linseed meal, hominy feed, wheat flour, corn feed meal.
1141	Bede's Cream Calf Meal Bede and Co., Chicago.	Guy V. Dering, Columbus	9.99	25.0	24.62	5.0	4.84	6.0	5.95	55	Ground flaxseed, wheat flour, locust bean meal, blood flour, cottonseed meal, beans and peas, cocoa shell meal, hominy feed, foenegreek, anise, salt.
SWINE FEEDS											
1111	My Hog Feed Mfr.: Acreby Farms Mfg. Co., Chicago.	Oakfield Elev. Co., Oakfield	7.26	15.0	16.65	4.0	4.09	10.0	8.78	68	Corn oil meal, corn feed meal, tankage, alfalfa meal, wheat middlings, screenings, molasses, humus, salt.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbohyd- rates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
307	SWINE FEED—Condensed Bleorn Hog Feed. Mfr.: Chapin and Co., Chicago.	Wilbur Lbr. Co., Lake Geneva	10.22	17.5	18.09	4.0	5.23	6.0	5.45	62	Corn feed meal, wheat flour, corn, rice, buckwheat, corn germ meal, middlings, barley, digester tankage, linseed meal, gluten feed, oats, bone meal, starch mill solubles, calcium salts, kafir meal, salt.
151	Queen Fattening Hog Ration. Mfr.: Albert Dickinson Co., Chicago.	I. W. York, Portage	9.80	13.5	14.49	4.0	3.87	12.0	9.07	63	Corn feed meal, ground barley, standard middlings, ground screenings, tankage, alfalfa meal, salt.
945	Growing Pig Ration. Mfr.: Dodge-Hooker Mills, Wausau.	Dodge-Hooker Mills Elev., Birnamwood	10.83	15.0	15.75	5.0	4.93	11.0	6.09	63	Hominy feed, linseed meal, corn meal, wheat and rye middlings, corn oil cake, red dog flour, barley, salt.
968	Hog Fattening Ration. Mfr.: Dodge-Hooker Mills, Wausau.	Dodge-Hooker Elev. Co., Birnamwood	10.61	12.0	12.51	7.0	4.84	8.0	4.89	63	Hominy meal, ground barley, corn meal, oil meal, gluten feed, middlings, corn oil cake, bone meal, salt.
300	Purina Pig Chow, not over 2% charcoal Mfr.: Ralston Purina Co., St. Louis, Mo.	Henry Solomon, Monroe	10.06	15.0	17.16	2.5	3.95	9.0	5.03	65	Hominy feed, molasses, gluten feed, corn meal, digester tankage, linseed meal, alfalfa, charcoal, salt.
329	Hog Feed Mfr.: Sparr Cereal Co., Marshfield.	Manufacturer	7.63	5.0	11.55	1.0	4.05	25.0	5.54	73	Screenings, mill sweepings, corn, oats, bran, rice hulls.
290	POULTRY FEEDS Sucrene Poultry Mash. Mfr.: American Mfg. Co., Peoria, Ill.	F. H. Green & Son, Janesville	10.94	13.0	19.19	3.5	4.95	12.0	7.33	71	Corn feed meal, alfalfa meal, meat scraps, bran, linseed meal, wheat middlings, dried buttermilk, salt.

232	Arady Buttermilk Egg Mash. Mfr.: Arady Farms Mig. Co. Chicago.	J. Held & Sons, Milwaukee	10.89	20.0	20.61	4.5	4.59	9.0	8.90	70	Dried buttermilk, meat scraps, bran, middlings, linseed meal, cottonseed meal, gluten feed, corn feed meal, oat meal, oat middlings, bone meal, alfalfa meal, salt.
414	Riverside Scratch Grains. Mfr.: Arcady Farms Mig. Co. Chicago.	Waukesha Grain & Produce Co., Waukesha	11.10	10.0	10.06	2.5	2.64	5.0	2.48	74	Wheat, cracked corn, kafir, buckwheat, barley, sunflower.
322	Daily Egg Poultry Feed. Mfr.: J. J. Badenoeh Co., Chicago.	Dunnebacke Co., Kenosha	11.80	9.0	8.86	2.0	2.59	5.0	3.43	90	Cracked corn, kafir, barley, oats, sunflower, milo, grits, shells.
323	Egg-A-Day Dry Mash. Mfr.: J. J. Badenoeh Co., Chicago.	Dunnebacke Co., Kenosha	11.17	13.0	20.63	3.0	3.63	11.0	8.25	56	Wheat, oats, barley, bran, middlings, screenings, alfalfa, buckwheat, middlings, milo maize, corn feed meal, fish meal, bone meal, calcium carbonate, salt.
161	Blatchford Milk Mash. Mfr.: Blatchford Calf Meal Co., Waukegan, Ill.	T. H. Cochran Co., Portage	9.86	20.0	20.13	4.0	4.97	7.5	7.19	58	Blatchford's calf meal,* bone meal, corn meal, middlings, meat scraps, fish meal, limestone.
361	Fill the Basket Egg Mash. Mfr.: Blatchford Calf Meal Co., Waukegan, Ill.	J. H. Timm & Co., Plymouth	8.25	19.0	19.88	4.0	5.14	10.0	9.41	60	Blatchford calf meal, alfalfa meal, bone meal, corn and oat meal, bran, middlings, meat scraps, fish, capsicum, limestone.
388	Champion Chick Scratch Feed Mfr.: Champion Mig. & Gr. Co., Clinton, Iowa.	Monroe Roller Mills, Monroe	9.74	10.0	13.19	3.0	3.17	7.0	3.02	73	Cracked corn, cracked wheat, cracked kafir, millet.
276	Conkeys Butterik Starting Fd. Mfr.: G. E. Conkey Co., Cleveland, Ohio.	L. L. Olds Seed Co., Madison	9.15	12.0	13.50	3.0	5.30	4.0	4.83	---	Buttermilk, corn feed meal, bulled oats, middlings, bone.
92	Scratch Feed Mfr.: Consolidated Mig., El. & Power Co., Chippewa Fla.	Manufacturer	9.94	---	9.75	---	2.31	---	4.06	---	Wheat, corn, oats, barley, buckwheat.
13	Starling Scratch Feed. Mfr.: Albert Dickinson Co., Minneapolis.	Wm. Rabinowitch & Sons, Park Falls	11.24	10.0	10.63	2.5	3.12	5.0	3.21	73	Corn, milo maize, oats, barley, buckwheat, sunflower.
213	Globe Scratch Feed. Mfr.: Albert Dickinson Co., Chicago.	Boss & Welsmiller, Oakbrook	9.01	10.0	9.88	2.5	2.55	5.0	3.32	73	Corn, wheat, kafir corn, buckwheat, sunflower, barley, oats, linseed cake, grit.
250	Globe Pigeon Feed. Mfr.: Albert Dickinson Co., Chicago.	P. Hamm & Co., Milwaukee	12.25	10.0	15.88	2.5	2.61	5.0	4.43	---	Wheat, peas, kafir, millet, buckwheat, hemp.

*For ingredients of Blatchford's Calf Meal see No. 162, page 33.

**Jobber: O. H. Streitzel, Milwaukee.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Mois- ture	Protein		Fat		Fiber		Carbo- hydrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
POULTRY FEED—Continued											
259	Rival Scratch Feed----- Mfr.: Albert Dickinson Co., Chicago.	Wilbur Lbr. Co., Milwaukee-----	12.66	8.5	9.88	2.5	3.68	5.0	2.92	71	Corn, wheat, barley, oats, kaf- fir corn.
311	Globe Chick Mash with butter- milk----- Mfr.: Albert Dickinson Co., Chicago.	Peter Jacobs, Kenosha-----	10.16	16.0	17.73	4.0	5.78	10.0	5.45	61	Dried buttermilk, corn feed meal, meat scraps, alfalfa meal, mid- dlings, oat flour, calcium car- bonate, salt.
318	Globe Egg Mash----- Mfr.: Albert Dickinson Co., Chicago.	Peter Jacobs, Kenosha-----	10.36	20.0	20.77	5.0	4.81	10.0	7.59	60	Meat scraps, gluten feed, linseed oil meal, bran, middlings, corn feed meal, alfalfa meal, salt.
419	King Pigeon Feed----- Mfr.: Albert Dickinson Co., Chicago.	Schultz Bros., Sheboygan-----	7.93	10.0	10.31	2.5	3.72	5.0	3.00	76	Corn, wheat, buckwheat, kafir, peas, millet.
365	Pine Tree Scratch Feed----- Mfr.: Albert Dickinson Co., Chicago.	Marinette Flour & Feed Co., Marinette-----	10.86	10.0	10.06	2.5	2.86	5.0	3.06	74	Cracked corn, barley, oats, kafir, millet, hemp, wheat, sunflower.
194	Egg Maker Dry Mash----- Mfr.: Dodge-Hooker Mills, Wausau.	Boulay Bros., Fond du Lac-----	8.10	17.0	20.13	4.0	5.24	10.0	11.28	60	Meat meal, middlings, corn meal, oil meal, alfalfa meal, hominy meal, bran, barley meal, gluten feed, bone meal.
230	Egg Maker Dry Mash ¹ ----- Mfr.: Dodge-Hooker Mills, Wausau.	Skuldt & Ayen, Madison----- Average-----	8.05 8.08	17.0 -----	23.54 21.84	4.0 -----	4.89 5.07	10.0 -----	8.84 10.05	56 58	Meat meal, middlings, corn meal, linseed meal, alfalfa meal, hom- iny meal, bran, barley meal, gluten feed, bone meal.
281	Wisconsin Poultry Feed ² ----- Mfr.: Dodge-Hooker Mills, Wausau.	Skuldt & Ayen, Madison-----	11.76	10.0	9.75	2.5	2.42	5.0	3.72	75	Wheat, corn, barley, sunflower seed, oats, buckwheat.
337	Wisconsin Chick Feed----- Mfr.: Dodge-Hooker Mills, Wausau.	Ayers & Whitcomb, Albany-----	9.12	10.0	8.84	2.5	1.53	5.0	1.48	78	Wheat, corn, millet, kafir, mho maize, barley.

	Wisconsin Chick Feed. Mr.: Dodge-Hooker Mills, Wausau.	Poelke & Steeber, Wausau. Average	12.6 10.86	10.0	9.82 9.08	2.5	1.39 1.43	5.0	1.38 1.88	75	Wheat, cracked corn, milo maize, barley, kafir.
224	Blue Ores Scratch Feed. Mr.: E. P. Doty, Janville.	Manufacturer	14.16	7.0	10.81	3.0	3.30	5.0	3.68	73	Corn, oats, barley, wheat, buck- wheat.
461	Olsen Scratch Feeds. Mr.: Eau Claire Grocery Co., Eau Claire.	Farmers' Store Co., Oamaru.	12.60	10.0	9.65	2.0	3.03	5.0	3.29	73	Corn, wheat, oats, barley, kafir, wild buckwheat.
98	Poultry Feed. Mr.: Fenimore Roller Mills, Edinboro.	Manufacturer	10.38	10.0	10.19	2.85	3.20	5.0	2.74	75	Corn, oats, wheat, kafir, buck- wheat.
88	Scratch Feed. Mr.: A. Grams and Son, La Crosse.	Manufacturer	10.02	10.0	9.81	4.0	2.72	5.0	4.73	75	Wheat, corn, barley, kafir, buck- wheat.
282	Green's Peerless Scratch Feed. Mr.: E. H. Green and Son, Janville.	Manufacturer	12.87	10.0	10.33	2.5	3.67	5.0	5.07	74	Corn, wheat, barley, buckwheat, kafir, sunflower seed.
192	Morning Glory Scratch Feed. With grit. Mr.: Hales & Hunter Co., Chicago.	Helmer Milling Co., Fond du Lac	11.50	10.0	9.63	2.5	2.66	5.0	2.93	70	Wheat, cracked corn, kafir corn, oats, buckwheat, grit.
198	Red Comb Scratch Feed with grit. Mr.: Hales & Hunter Co., Chicago.	Helmer Milling Co., Fond du Lac	11.82	10.0	9.69	2.5	3.23	5.0	3.07	---	Wheat, corn, kafir, barley, oats, buckwheat, grit, sunflower seed.
203	Red Comb Egg Mash with dried buttermilk. Mr.: Hales & Hunter Co., Chicago.	Helmer Milling Co., Fond du Lac	9.02	15.0	13.53	4.0	4.55	9.0	6.37	61	Corn feed meal, oats, bran, mid- dlings, oil meal, meat scraps, alfalfa meal, dried buttermilk, calcium carbonate.
205	Red Comb Egg Mash with buttermilk. Mr.: Hales & Hunter Co., Chicago.	Kneisler Bros., Milwaukee.	9.66	16.0	19.56	4.5	5.40	9.0	5.33	60	Corn feed meal, oats, gluten feed, middlings, oil meal, meat scraps, alfalfa meal, dried buttermilk, calcium carbonate.
242	Pound Squab Pigeon Feed. Mr.: Hales & Hunter Co., Chicago.	Kneisler Bros., Milwaukee.	13.03	10.0	11.94	2.5	2.55	5.0	3.07	70	Peas, millet, hemp, kafir, wheat, buckwheat.
331	Red Comb Fine Chick Feed. Mr.: Hales & Hunter Co., Chicago.	Meech & Bently (City Mills), Beloit	9.12	10.0	9.25	2.5	2.10	5.0	1.70	73	Cracked wheat, corn, kafir, grit.

**Jobber: Farmers Store Co., Bloomer.

**Jobber: Hoffman Feed Co., Madison.

**Jobber: Hoffman Feed Co., Madison.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo-hydrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
POULTRY FEED—Continued											
433	Red Comb Fine Chick Feed. Mr.: Hale & Hunter Co., Chicago.	Knauf & Tsch, Ohlton. Average	7.97 8.55	10.0	9.94 9.60	2.5	2.52 2.31	5.0	2.14 1.92	74	Cracked corn, wheat, kafir, oats, grit.
2	Hansons Scratch Feed. Mr.: Hanson Bros. Co., Ashland	Manufacturer	13.26	10.0	10.19	2.5	2.11	5.0	3.84	73	Cracked corn, barley, wheat, kafir, millet, oats, buckwheat, sunflower seed.
8	Imperial Poultry Feed. Mr.: Jameson-Heyner Co., St. Paul.	H. O. Henning, Glidden.	12.65	10.0	9.69	2.5	2.38	5.0	3.94	73	White corn, kafir, barley, millet, sunflower seed, buckwheat.
455	Imperial Poultry Feed. Mr.: Jameson-Heyner Co., St. Paul.	Co-operative Store Co., Bruce. Average	13.35	10.0	9.81	2.5	2.97	5.0	3.23	72	Wheat, corn, barley, kafir, mil- let, sunflower seed, buckwheat, screenings.
10	Imperial Poultry Mash. Mr.: Jameson-Heyner Co., St. Paul.	H. O. Henning, Glidden.	13.00 10.84	18.5	9.75 20.56	4.0	2.98 4.96	10.0	3.59 10.66	73 59	Bran, middlings, beef scraps, al- falfa meal, corn meal, oil meal, charcoal, salt.
458	Imperial Poultry Mash. Mr.: Jameson-Heyner Co., St. Paul.	Amery Custom Feed Mill, Amery Average	10.37 10.61	18.5	18.75 19.66	4.0	4.76 4.86	10.0	9.82 10.24	62 61	Bran, middlings, beef scraps, al- falfa meal, corn meal, oil meal, charcoal, salt.
367	Blue Top Scratch Feed. Mr.: Chas. A. Krause Mig. Co., Milwaukee.	S. Schloegel, Milwaukee	13.25	9.0	9.19	1.5	2.90	5.0	2.59	70	Corn, wheat, oats, kafir, sun- flower seed, barley, buckwheat.
373	Krause Developing Feed. Mr.: Chas. A. Krause Mig. Co., Milwaukee.	Mills & Fritz, Lake Mills	10.75	9.0	10.09	1.5	2.53	5.0	2.97	75	Cracked corn, wheat, kafir, milo maize, buckwheat, millet.
374	Krause's Scratch Feed. Mr.: Chas. A. Krause Mig. Co., Milwaukee.	Mills & Fritz, Lake Mills	10.41	9.0	10.06	1.5	1.62	5.0	2.88	76	Wheat, corn, kafir, milo maize, barley, oats, buckwheat, sun- flower seed.
439	Badger Blue Top Chick Feed. Mr.: Chas. A. Krause Mig. Co., Milwaukee.	Granville Supply Co., Granville.	7.23	9.0	8.63	1.5	2.06	5.0	1.72	76	Cracked wheat, corn, kafir, mil- let, grit.

244	Record Maker Scratch Feed. Mfr.: Ladish Mig. Co., Milwaukee.	Stollenwerk Bros., Milwaukee.	14.18	9.5	9.56	2.5	3.28	5.0	3.10	71	Cracked corn, wheat, kafir, milo maize, buckwheat, sunflower seed, oats.
246	National Scratch Feed. Mfr.: Ladish Mig. Co., Milwaukee.	Jas. Przybyla, Milwaukee.	12.85	9.5	9.56	2.5	3.36	5.0	3.12	73	Cracked corn, wheat, barley, kafir, milo maize, oats, buckwheat.
247	True Value Dry Mash. Mfr.: Ladish Mig. Co., Milwaukee.	Aug. Berndt, Milwaukee.	10.66	20.0	20.81	5.0	4.53	10.5	7.51	59	Oil meal, corn feed meal, gluten feed, oats, meat scraps, alfalfa meal, bran, middlings, salt.
120	Scratch Feed. Mfr.: E. Leithen Grain Co., Appleton.	Manufacturer	10.56	10.0	9.50	2.5	3.09	5.0	3.02	75	Orn. wheat, kafir, barley, buckwheat.
346	Red Oak Chick Feed. Mfr.: McKeeher & Rossier, Wisconsin Rapids.	Manufacturer	10.53	9.0	10.13	2.5	3.34	5.0	3.82	74	Orn. wheat, kafir, corn, millet, foxtail.
405	Red Oak Hen Feed. Mfr.: McKeeher & Rossier, Wisconsin Rapids.	Rowland & Son, Wisconsin Rapids	9.84	10.0	9.72	2.5	3.64	3.5	2.75	73	Cracked corn, wheat, barley, buckwheat, oats, kafir, oil meal.
229	Pyramid Laying Mash. Mfr.: Montgomery-Voorhees & Co., Chicago.	Waukesha Grain & Produce Co., Waukesha	9.92	13.0	13.72	4.0	4.35	10.0	10.52	67	Dried buttermilk, meat scraps, corn meal, oil meal, alfalfa meal, cottonseed meal, oats, barley, rice, bran, middlings, calcium phosphate, calcium carbonate, salt.
313	Pyramid Laying Mash. Mfr.: Montgomery-Voorhees & Co., Chicago.	J. Held & Sons, Milwaukee. Average	10.11 10.02	18.0	18.83 15.13	4.0	4.05 4.20	10.0	10.46 10.49	62 65	Dried buttermilk, meat scraps, corn meal, oil meal, alfalfa meal, cottonseed meal, oats, barley, rice, wheat bran and middlings, screenings, calcium carbonate, calcium phosphate, salt.
453	Sterling Baby Chick Starter. Mfr.: Northrup, King & Co., Minneapolis.	Amery Custom Feed Mill, Amery	12.29	10.0	9.75	2.5	2.37	5.0	2.61	69	Wheat, corn, milo maize, millet, barley, peas, grit, weed seeds.
454	Sterling Chick Feed. Mfr.: Northrup, King & Co., Minneapolis.	Amery Custom Feed Mill, Amery	12.15	10.0	9.63	2.5	2.47	5.0	3.25	69	Wheat, corn, milo maize, millet, peas, barley, grit, weed seeds.
455	N. K. and Co., Special Scratch with grit. Mfr.: Northrup, King & Co., Minneapolis.	Amery Custom Feed Mill, Amery	12.10	10.0	9.52	2.5	2.71	5.0	3.00	71	Corn, barley, wheat, milo, buckwheat, oats, speltz, grit.
274	Old Gold Poultry Feed (no grit) Mfr.: L. L. Olds Seed Co., Madison.	Manufacturer	12.13	10.0	10.56	3.0	3.23	5.0	3.73	72	Cracked corn, kafir, wheat, barley, oats, sunflower seeds, buckwheat.

*Jobber: Kotvis Bros., Milwaukee.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbo- hydrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
POULTRY FEED—Continued											
276	Old Gold Poultry Feed (with grit): Mfr.: L. L. Olds Seed Co., Madison.	Manufacturer	11.10	9.5	9.38	2.5	2.39	5.0	3.23	72	Wheat, corn, kafir, barley, buck- wheat, oats, sunflower seed, weed seeds.
19	Gopher Hen Feed: Oceola Mill and Elev. Co., Oceola.	A. O. A., Prentice	10.99	10.0	10.13	3.0	2.77	5.0	3.04	74	Wheat, corn, kafir, barley, sun- flower seed.
236	Growing Feed: Mfr.: Park & Pollard Co., Chicago.	Globe Milling Co., Watertown	12.9	10.0	14.50	1.5	3.09	8.0	7.13	68	Corn, wheat, oats, barley, meat, bone, alfalfa, kafir, bran, middlings, buckwheat, beet pulp, calcium carbonate, salt.
237	Lay or Bust Dry Mash: Mfr.: Park & Pollard Co., Chicago.	Globe Milling Co., Watertown	10.89	13.0	19.94	2.0	4.65	12.0	9.84	59	Wheat, barley, kafir, corn, milo maize, oats, alfalfa meal, screen- ings, buckwheat offal, bran, middlings, meat, bone, dried fish, calcium phosphate, calcium ear- bonate, limestone, salt.
240	Screened P. and P. Scratch Feed: Mfr.: Park & Pollard Co., Chicago.	Globe Milling Co., Watertown	15.05	10.0	9.38	1.5	3.17	5.0	3.08	71	Cracked corn, wheat, buckwheat, barley, oats, kafir, milo, sun- flower seed.
40	Full-O-Pop Dry Mash: Mfr.: Quaker Oats Co., Chicago.	Guy V. Dering, Columbus	9.88	20.0	20.07	4.0	5.27	10.0	9.61	60	Meat scraps, fish meal, oat meal, bran, screenings, bone meal, cot- tonseed meal, hominy feed, glu- ten feed.
43	Full-O-Pop Scratch Grits: Mfr.: Quaker Oats Co., Chicago.	Guy V. Dering, Columbus	13.04	10.0	9.51	2.5	2.33	5.0	2.94	73	Wheat, barley, kafir, buckwheat, cracked corn, sunflower seed.
44	Schumacher Scratch Grits: Mfr.: Quaker Oats Co., Chicago.	Guy V. Dering, Columbus	10.53	10.0	9.78	2.5	2.10	5.0	2.32	77	Wheat, kafir, milo, barley, cracked corn, buckwheat, sun- flower seed.

158	Schumacher Little Chick Feed Mr. Quaker Oats Co., Chicago.	T. H. Cochrane Co., Portage.	10.18	10.0	9.37	2.5	2.66	5.0	2.56	74	Cracked wheat, kafir, corn, millet, oat meal, charcoal, grit, weed seeds.
210	Big Egg Scratch Feed. Mr.: Quaker Oats Co., Chicago.	Heimer Milling Co., Fond du Lac	10.21	10.0	9.56	2.5	2.52	5.0	2.96	71	Wheat, kafir, milo, cracked corn, sunflower seed, barley, marble grit.
915	Big Egg Scratch Feed. Mr.: Quaker Oats Co., Chicago.	A. Sinalko, Madison. Average	12.91 11.56	10.0	10.00 9.78	2.5	2.04 2.23	5.0	3.71 3.33	73 75	Wheat, kafir, milo, cracked corn, sunflower seed, oats, barley.
367	Pansy Scratch Feed. Mr.: Quaker Oats Co., Chicago.	Lawson Bros., Ripon.	11.37	10.0	10.51	2.5	2.73	5.0	2.42	74	Wheat, kafir, milo maize, barley, buckwheat, sunflower seed, cracked corn.
421	Early Bird Chick Feed. Mr.: Quaker Oats Co., Chicago.	Schultz Bros., Sheboygan.	11.71	10.0	9.81	2.5	2.37	5.0	2.25	74	Cracked wheat, kafir, corn, millet, oat meal, wild buckwheat, charcoal.
101	Hen Chowder. Mr.: Ralston Purina Co., St. Louis, Mo.	F. F. Orton & Co., Lancaster.	10.59	10.0	10.49	2.5	3.37	4.0	2.88	74	Wheat, corn, barley, kafir, milo, buckwheat, sunflower seed.
392	Purina Hen Chow. Mr.: Ralston Purina Co., St. Louis, Mo.	Henry Solomon, Monroe.	10.00	10.0	10.56	2.5	2.29	4.0	3.55	75	Wheat, corn, barley, kafir, milo, buckwheat, sunflower seed.
393	Purina Baby Chick Chow. Mr.: Ralston Purina Co., St. Louis, Mo.	Henry Solomon, Monroe.	9.62	10.0	10.13	2.5	2.45	5.0	2.86	76	Wheat, corn, kafir, milo, millet.
394	Purina Chicken Chowder with Pecorino. Mr.: Ralston Purina Co., St. Louis, Mo.	Henry Solomon, Monroe.	6.77	19.0	19.56	4.0	4.35	10.0	8.66	68	Wheat middlings and bran, gluten feed, alfalfa, linseed meal, meat meal, charcoal.
223	Vitality Egg Mash Mr.: Rosenbaum Bros., Chicago.	Ashdahl & Nelson, Racine.	8.51	13.0	21.38	4.0	4.52	10.0	11.22	57	Milk albumen, meat scraps, linseed oil meal, corn feed meal, bran, middlings, oats, alfalfa meal, bone meal, calcium carbonate, barley.
224	Scratch Feed Mr.: Rosenbaum Bros., Chicago.	Ashdahl & Nelson, Racine.	11.90	10.0	9.44	2.0	3.07	7.0	2.51	74	Wheat, cracked corn, kafir, barley, oats, buckwheat.
102	Chick Starter with Dried Milk Mr.: Ryde & Co., Chicago.	Harvey & Son, Platteville.	9.38	20.0	20.38	5.0	3.73	7.0	7.34	63	Wheat flour, middlings, corn meal, meat scraps, bone meal, dried milk, alfalfa meal, locust bean meal, linseed meal, hominy feed, cottonseed meal, blood-flour, beans, lentils, cocoa-shell meal, coconut meal, salt, flaxseed, foenegreek, anise, malt.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Continued.

Lab. No.	Name of Brand	Principal Ingredients	Moisture	Protein		Fat		Fiber		Carbohy- drates	Dealer or Farmer
				Guar.	Found	Guar.	Found	Guar.	Found		
POULTRY FEED—Concluded											
86	Magic Egg Producer Mfr.: John A. Salzer Seed Co., La Crosse.	Manufacturer	5.50	14.87	1.86	8.66					Oil meal, potassium carbonate, copperas, salt, sulphur, calcium carbonate.
444	Blue Rock Scratch Feeds Mfr.: A. W. Schisler F. and G. Seed Co., St. Louis, Mo.	Corliss Supply Co., Corliss	13.25	10.0	3.5	3.11	5.0	3.49	76		Sunflower seed, buckwheat, milo, wheat, corn, barley, screenings.
445	Shield Brand Chick Feeds Mfr.: A. W. Schisler F. and G. Seed Co., St. Louis, Mo.	Corliss Supply Co., Corliss	12.05	9.44	2.39	2.66		2.66	74		Milo, corn, millet, wheat, screenings.
518	Blue Bird Scratch Feed Mfr.: A. W. Schisler F. and G. Seed Co., St. Louis, Mo.	John Barrett, Montello	9.19	10.0	10.94	2.5	6.72	5.0	5.64		Sunflower seed, buckwheat, corn, kafir, barley.
932	Schreiber Hen Scratch Feed Mfr.: Schreiber Milling and Grain Co., Minneapolis.	P. F. Grall, Whitelaw	11.74	10.0	9.25	3.0	2.63	4.0	1.92	74	Corn chop, wheat, milo, kafir, barley, sunflower seed.
25	Poultry Feed Spurr Cereal Co., Marshfield.	Manufacturer	11.23	8.0	10.38	2.0	2.56	12.0	2.84	74	Wheat, corn, barley, oats, sunflower seed, buckwheat.
440	Badger Fine Chick Feed (grit) Mfr.: L. Tweles Seed Co., Milwaukee.	Wm. Kratz, Schielingsville	8.55	10.0	10.00	2.5	3.18	5.0	2.14	71	Cracked corn, wheat, kafir, millet, oat meal, grit.
441	Badger Scratch Feed Mfr.: L. Tweles Seed Co., Milwaukee.	Wm. Kratz, Schielingsville	8.40	10.0	8.35	2.5	2.07	5.0	2.05	74	Corn, wheat, barley, kafir, milo meal, buckwheat, sunflower, grit.
417	Climax Scratch Feed (grit) Mfr.: Wells-Osen Milling Co., De Pere.	Arndt Bros., Sheboygan	12.10	9.0	8.88	2.5	2.60	5.0	2.41	70	Corn, kafir, oats, barley, wheat, buckwheat, sunflower seed, grit.
441	Chick Feed Mfr.: Wells-Osen Milling Co., De Pere.	Manufacturer	9.18	9.0	7.78	2.5	1.89	5.0	2.34	78	Cracked corn, wheat, oats, kafir, millet, weed seeds.
442	Chick Developing Feed Mfr.: Wells-Osen Milling Co., De Pere.	Manufacturer	10.41	9.0	8.94	2.5	4.25	5.0	3.39	74	Cracked corn, wheat, kafir, oats, oil cake, bran, middlings, weed seeds.

361	Egg Mash Mfr.: Wells-Olsen Milling Co., De Pere.	Lee Bros., De Pere.	10.40	15.0	17.38	4.0	3.43	11.0	5.56	74	Wheat bran and middlings, oat feed, corn feed meal, cottonseed meal, gluten feed, oil meal, meat scraps, barley, salt.
319	Blue Ribbon Scratch Feed. Mfr.: Wilbur Lbr. Co., Lake Geneva.	Manufacturer	12.67	10.0	10.44	2.5	2.57	5.0	3.84	71	Wheat, corn, kafir, barley, buckwheat, sunflower seed.
UNCLASSIFIED FEEDS.											
442	Armour Stock Feed Mfr.: Armour Grain Co., Chicago.	Armour Grain Co., Schleierville	7.60	12.0	14.31	4.0	4.45	12.0	13.35	70	Corn, hominy feed, middlings, barley, oat shorts, oat mid- dlings, oat hulls, cottonseed meal, bran, linseed meal, salt.
100	Champion Molasses Feed. Mfr.: Champion Milling and Grain Co., Clinton, Iowa.	F. F. Orton & Co., Lancaster	11.67	11.0	9.72	2.0	2.76	8.0	8.43	---	Cottonseed meal, bran, corn, screenings, molasses, charcoal.
227	Champion Molasses Feed Mfr.: Champion Milling and Grain Co., Clinton, Iowa.	Average	14.33 13.00	11.0	10.28 10.00	2.0	2.08 2.42	8.0	6.56 7.50	---	Cottonseed meal, bran, corn, screenings, molasses, charcoal.
57	White Cross Horse Feed. Mfr.: Albert Dickinson Co., Minneapolis.	Farmers' Store Co., Onetek	8.41	10.0	10.28	3.5	4.30	10.0	4.70	73	Crushed oats, corn feed meal, corn bran, standard middlings, cot- tonseed meal, salt.
253	Honeyuckle Feed Mfr.: Albert Dickinson Co., Chicago.	F. Milbrath & Sons, Milwaukee	21.64	10.0	10.55	5.0	1.13	25.0	16.91	73	Alfalfa meal, molasses.
254	Hobby Horse Feed Mfr.: Albert Dickinson Co., Chicago.	F. Milbrath & Sons, Milwaukee	16.27	9.0	10.58	1.5	1.63	15.0	11.07	68	Corn, oats, alfalfa meal, mo- lasses.
81	Nutra Feed Mfr.: Dodge-Hooker Mills, Wausau.	Dodge-Hooker Elev., Sparta	7.87	12.0	11.72	3.0	3.59	12.0	12.71	73	Hominy feed, barley, linseed oil meal, wheat feed, corn oil cake, corn meal, oat hulls, oat shorts, salt.
375	Nutra Stock Feed. Mfr.: Dodge-Hooker Mills, Wausau.	Mills & Fritz, Lake Mills	7.89	12.0	9.61	3.0	3.55	12.0	14.50	75	Hominy feed, barley, oil meal, wheat feed, corn oil meal, oat shorts, oat middlings, oat hulls, corn meal, salt.
944	Nutra Stock Feed. Mfr.: Dodge-Hooker Mills, Wausau.	Dodge-Hooker Mills Elev., Brimwood.	9.98	12.0	10.83	3.0	3.52	12.0	11.67	72	Hominy meal, barley, linseed oil meal, wheat feed, corn oil meal, oat hulls, oat shorts, oat mid- dlings, corn meal, salt.
		Average	8.58	---	10.87	---	3.49	---	12.90	73	

es: Jobber: Milwaukee Seed Co., Milwaukee.
es: Jobber: Milwaukee Seed Co., Milwaukee.

TABLE II.—ANALYSES OF FEEDING STUFFS: 1921—Concluded.

Lab. No.	Name of Brand	Dealer or Farmer	Moisture	Protein		Fat		Fiber		Carbohyrates	Principal Ingredients
				Guar.	Found	Guar.	Found	Guar.	Found		
UNCLASSIFIED FEEDS—Concl.											
339	Protolac (semi-solid butter-milk)*	Hoffman Feed Co., Madison	74.9	10.14	2.63					13	
306	Mfr.: Greich-Ordway, St. Paul, Minn. Dry Broken Oats		9.76	8.15	0.37			0.61		81	
66	Mfr.: J. F. Herrmann & Co., Chicago. Badger Monopoly Feed	A. O. A., Richland Center	10.43	9.0	3.5	3.48	8.0	6.62		71	Barley, oats.
98	Mfr.: Chas. A. Krause Milling Co., Milwaukee. Badger Stock Feed	Campbellsport Equity Co., Campbellsport.	10.01	10.0	9.63	3.5	3.22	12.0	13.88	73	Hominy feed, corn feed meal, kaf-fir, bran, middlings, screenings, oat middlings, oat shorts, oat hulls, linseed meal, salt.
309	True Value Stock Feed	F. M. Durkee & Son, Lake Geneva	10.16	10.0	10.79	3.5	2.58	12.0	10.07	78	Cottonseed meal, hominy feed, oats, corn, oat middlings, oat shorts, oat hulls, salt.
361	True Value Stock Feed	Luxemburg Co-operative Assn., Luxemburg.	11.03	10.0	9.69	3.5	2.71	12.0	9.01	73	Cottonseed meal, hominy feed, oats, corn, oat hulls, oat shorts, salt.
	Mfr.: Ladish Milling Co., Milwaukee.	Average	10.60	10.24	2.65			9.54			
310	True Value Horse Feed	F. M. Durkee & Son, Lake Geneva	13.07	9.0	10.63	2.5	2.63	15.0	9.85	70	Corn, oats, alfalfa, molasses, salt.
	Mfr.: Ladish Milling Co., Milwaukee.										
48	Schumacher Feed	T. H. Oechrane Co., Portage	9.48	10.0	9.66	3.2	3.12	11.0	12.82	71	Corn, hominy feed, yellow hominy feed, linseed oil meal, barley, wheat bran and middlings, screenings, cottonseed meal, oat hulls, oat shorts, rye flour, calcium phosphate, salt.
	Mfr.: Quaker Oats Co., Chicago.										
59	White Diamond	T. H. Oechrane Co., Portage	9.61	8.0	9.06	3.25	4.03	9.0	8.93	77	Corn, hominy feed, oat hulls, oat shorts, calcium phosphate, salt.
	Mfr.: Quaker Oats Co., Chicago.										

965	Victor Feed Mr.: Quaker Oats Co., Chicago.	Ed Bahneman, Reedsville.	9.10	8.0	9.50	3.0	4.90	13.0	10.25	72	Corn, hominy feed, oat hulls, oat shorts, oat middlings, salt.
303	Purina Steer Fatena Feed with Charcoal Mr.: Ralston Purina Co., St. Louis, Mo.	Sage-Field Lbr. Co., Delavan.	19.53	12.0	11.30	1.8	1.80	10.0	8.03	69	Molasses, cottonseed meal, corn, alfalfa, charcoal, salt.
391	Ondene Feed Mr.: Ralston Purina Co., St. Louis, Mo.	Henry Solomon, Monroe.	10.95	9.7	9.07	3.2	3.16	8.0	6.69	73	Cracked corn, oats, alfalfa, molasses, salt.
947	Wheatco Mr.: Schreiber Milling and Grain Co., Minneapolis.	F. F. Grall, Whitelaw.	10.17	16.0	14.75	4.5	4.23	12.0	7.33	67	Wheat feed, screenings.
387	All Stock Feed Mr.: Smith Milling Co., Milwaukee.	Monroe Roller Mills, Monroe.	7.62	12.0	15.56	4.0	4.35	14.0	12.73	69	Hominy feed, corn, corn oil feed, barley, oil meal, bran, middlings, oat middlings, oat shorts, oat hulls, salt.
431	Oane Mola Mr.: U. S. Food Products Corp., Chicago.	B. F. Sheridan, Fond du Lac.	32.5	sugar 59.02							Molasses.

*Ash, 3.19; nitrogen free extract, 5.

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